

1st January, 1904

Date : 3/16/25 8:59 PM

<https://nla.gov.au:443/nla.obj-473352779>

Copyright varies by issue and article

Reason for copyright status: Serials have an open range of dates.

Copyright status was determined using the following information:

Material type: Literary, dramatic or musical work

Copyright status may not be correct if data in the record is incomplete or inaccurate. For more information regarding Copyright in Library Collections visit <http://copyright.org.au> and <http://www.nla.gov.au/copyright-in-library-collections>

The National Library of Australia supports creativity, innovation and knowledge-exchange but does not endorse any inappropriate or derogatory use. Please respect indigenous cultural and ethical concerns.

mi-8
3
[§§ 11946 to 11991.]

[Issued with Army Orders, dated 1st January, 1904.]

[All rights reserved.]

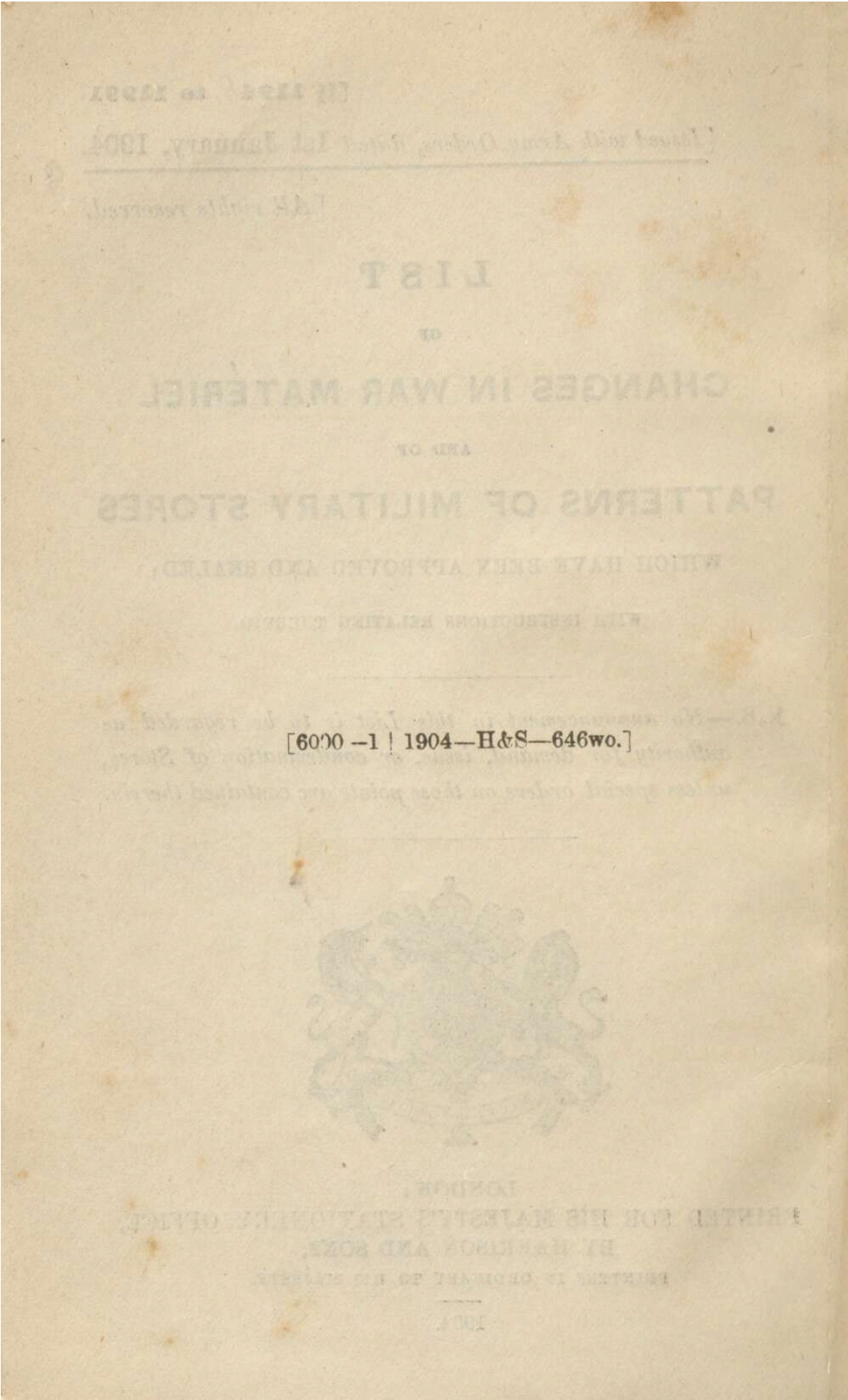
LIST
OF
CHANGES IN WAR MATÉRIEL
AND OF
PATTERNS OF MILITARY STORES
WHICH HAVE BEEN APPROVED AND SEALED;
WITH INSTRUCTIONS RELATING THERETO.

N.B.—*No announcement in this List is to be regarded as authority for demand, issue, or condemnation of Stores, unless special orders on those points are contained therein.*



LONDON:
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
BY HARRISON AND SONS,
PRINTERS IN ORDINARY TO HIS MAJESTY.

1904.



CONTENTS.

Article.	Para.	Page.
Arcs, gun:—		
B.L.—		
5-inch howitzer. (I.)	11960	539
15-pr.—		
Mark I. gun. (I.)		
Mark II. gun. (I.)		
Mark IV. gun. (I.)		
12-pr. 6-cwt.—		
Mark I. gun. (I.)		
Mark II. gun. (I.)		
Mark IV. gun. (I.)		
Q.F.—		
4·7-inch, B, Marks I. to IV.* guns. (I.)	11976	556
15-pr. gun. (I.)		
Battery and key, test and firing:—		
(III.**)—	11976	556
(IV.)— <i>Nomenclature.</i>		
Boxes:—		
Ammunition, S.A.—		
G.S.—		
Home and special. (XIV.)—	11980	559
<i>New distinguishing labels when packed with ammunition in chargers.</i>		
1,000 rounds, ·303-inch, in chargers—		
No. 1. (I.)		
No. 2. (I.)		

Article.	Para.	Page.
Boxes—continued.		
Spare parts and implements, Q.F., Nordenfelt—	}	11968 550
6-pr.—		
Land—		
Empty. (III.)		
Filled. (III.)		
Naval. (II.)—		
3-pr.—	}	11982 562
Land—		
Empty. (III.)		
Filled. (III.)		
Tender. (I.)		
Carriages:—		
Field, Q.F., 15-pr. (I.)—	}	11959 538
Field clinometer to be carried on carriage.		
Garrison—	}	11962 540
Barbette, B.L.—		
10-inch. (IV.)—		
9·2-inch. (III. to V.)—		
Scale plates of elevation indicators to be graduated for $\frac{3}{4}$ and full charges.		
Disappearing, B.L.—	}	11963 542
10-inch. (I.)—		
9·2-inch. (I.)—		
6-inch. (II. and IV.)—		
Fitting of sighting gear.		
Q.F.—	}	11964 544
4·7-inch, C.P. (IV. and V.)—		
Mineral jelly for lubricating ball bearings.		
Recoil, 6-pr., Hotchkiss. (I.* and II.*)	}	11965 545
Addition of automatic sights, elevating gear, adjustable shoulder piece, bearing ring, and relieving spring.		

Article.	Para.	Page.		
Cartridges:—				
B.L., 12-pr. 6-cwt., $12\frac{7}{16}$ oz., cordite, size 5. (I.*)— <i>Re-priming of Mark I. cartridges with guncotton.</i>	11978	556		
Q.F., 2·95-inch— Case, shot. (II.).. ..				
Cordite— Bag, shalloon. (I.) Case, shot. (I) Bag, shalloon. (I.) Charge, $5\frac{1}{4}$ oz., size 5. (I.) ..	11979	557		
Cylinder, paper. (I.)				
Double shell— (I.).. (II.) Charge, 5 oz., size 5. $\frac{2}{3}$ (I.) ..				
Shrapnel shell— (I.).. (II.) Charge, 5 oz. 4 drs., size 5. (I.)				
Shell, double. (III.)				
Shell, star. (I.)				
Carts, small-arm ammunition. (II.**)			11953	526
<i>Alterations to Mark II.* carts to carry small- arm ammunition in chargers.</i>				
Cases:—				
Chargers, ·303-inch cartridges. (I.) ..			11980	559
Stand, telescope, field artillery. (I.)— Telescope, field artillery. (I.)— <i>Nomenclature.</i>			11990	566

Article.	Para.	Page.
Clamp, tangent sight, automatic, Q.F., 12½-pr., and Nordenfelt guns. (I.)— <i>Extended use and nomenclature.</i>	} 11969	551
Cloths:—		
Distinctive	} 11983	562
Medicine		
Collimator, telescope sighting. (I.)— <i>Pointers for telescope sighting, No. 1 (II.) and No. 3 (I.), to be carried with accessories in collimator chest.</i>	} 11966	549
Cone, Q.F., recoil, 6-pr.— <i>Fitted with footstep bearing.</i>	} 11965	545
Cordite:—		
T.	} 11975	555
M.D.T.		
Cover, tin, mineral jelly, 3 oz. (I.) ..	11950	525
Desk, office, single— <i>Removable knobs for drawers.</i>	} 11981	562
Director. (I.)— <i>Nomenclature.</i>	} 11990	566
Drum, cylindrical, 5½ gallons. (I.)— <i>Nomenclature.</i>	} 11956	537
Duster	11983	562
Errata	—	568
Fuze, electric, No. 14. (III.) ..	11977	556

V

Article.	Para.	Page.
Gun-arcs:—		
B.L.—		
5-inch, howitzer. (I.)	}	11960 539
15-pr.—		
Mark I. gun. (I.)		
Mark II. gun. (I.)		
Mark IV. gun. (I.)		
12-pr. 6-cwt.—		
Mark I. gun. (I.)		
Mark II. gun. (I.)		
Mark IV. gun. (I.)		
Q.F.—		
4.7-inch B, Marks I. to IV.*, guns.	}	
(I.)		
15-pr. gun. (I.)	}	
Hydrometer, secondary battery. (II.) ..	11984	563
Instruments, telegraph, vibrating. (II.)—		
Case. (II.)—	}	11987 565
Transmitters—		
(III.)—		
(IV.)—		
Brackets—		
Screws, contact—		
Springs, key—		
Stops, front—		
Lower—		
Upper—		
Terminals, double—		
<i>Nomenclature.</i>		
Irons, soldering:—		
Telegraph mechanics—	}	11955 537
Tinmans—		
<i>Nomenclature.</i>		
Lamps, signalling:—		
A. (I.)—	}	11985 563
B. (I.)—		
<i>Nomenclature of oil.</i>		

Article.	Para.	Page.
Limbers, field, B.L., 15-pr. (II.**)	11961	540
Mineral jelly:—		
Red	11957	537
Yellow		
Mounting, tripod, 303-inch Maxim gun. (III.)— <i>Addition of foot strap.</i> <i>Nomenclature.</i>	11967	550
Oil, lubricating, for cylinders of gas engines and motors.	11959	537
Oil, lubricating, for cylinders of oil engines— <i>Restricted use and nomenclature.</i>		
Ordnance:—		
B.L., 9·2-inch, wire, Marks X. and X.v— Bushes, ball bearing— Frames, breech mechanism— <i>Modification to secure ball bearing bushes.</i> <i>Nomenclature of breech mechanism frame.</i>	11973	554
Q.F.— 6-inch B, and Q.F.C., 6-inch— Needles— 4·7-inch B, and 4-inch, Mark III.— Needles— <i>Adjustments to ensure maximum protrusion of striker.</i>	11970	552
4·7-inch, B, and 4-inch, Mark III.— Striker, E. and P.— <i>Modification to shape of insu- lator for front end of needle.</i>	11971	553

Article.	Para.	Page.
Ordnance—continued.		
Q.F.—	}	11970 552
12-pr.—		
Needles—	}	11965 545
<i>Adjustments to ensure maximum protrusion of striker.</i>		
Hotchkiss, 6-pr., Mark II.—	}	11970 552
Crank handle. (II.)		
Q.F.. or Q.F.C.—	}	11972 553
Bush, firing hole—		
Q.F.C., 4-inch—	}	11946 515
Needles—		
<i>Adjustments to ensure maximum protrusion of striker.</i>	}	11947 515
R.B.L., 40-pr. 32-cwt.—		
<i>Certain guns to be withdrawn.</i>	}	11948 522
Pump, mineral jelly. (I.)		
Rifles, short, magazine, Lee-Enfield :—	}	11949 523
(I.)		
§ 11715 cancelled.	}	11988 565
Converted. (I.)		
Converted. (II.)	}	11965 545
Rulers, parallel, rolling :—		
15-inch. (II.)	}	11988 565
9-inch. (II.)		
Saddle, Q.F., 6-pr.—	}	11965 545
<i>Fitted with footstep bearing.</i>		

Article.	Para.	Page.
Saddlery, Officers:—		
Cases, horse-shoe—	} 11954	530
Near. (III.)		
Off. (II.)		
Collars, head—		
Large. (II.)		
Small. (II.)		
Girths, web—		
Long, pairs. (III.)		
Short, pairs. (III.)		
Leathers, stirrup. (II.)		
Runners, stirrup leather, $1\frac{7}{16}$ inches. (I.)		
Saddles, universal—	}	
Large. (IV.)		
Small. (IV.)		
Wallets, pair. (III.)		
Shields, Q.F., recoil, 6-pr., Hotchkiss:—		
Cone. (I.*)	} 11965	545
Embrasure. (I.*)		
<i>Openings enlarged to clear automatic sights.</i>		
Sideboard—	}	11981 562
<i>Removable knobs for drawers.</i>		
Silk, sewing, No. 2—	}	11974 555
<i>Future supplies to be on reels only.</i>		
<i>Nomenclature.</i>		
Socket, recoil carriage, Q.F., 6-pr.—	}	11965 545
<i>Fitted with footstep bearing.</i>		
Stand, telescope, field artillery. (I.)—	}	11990 566
<i>Nomenclature.</i>		
Switches, telephone:—		
5 line. (I.*)—	}	11989 566
10 line. (I.*)—		
Plug, jack—		
<i>Nomenclature.</i>		

Article.	Para.	Page.
Tables :—		
Kitchen, small. (I.)—	} 11981	562
Office, leather top. (II.)—		
Officers— <i>Removable knobs for drawers.</i>		
Telescope field artillery. (III.)	11990	566
Tent, signallers—		
Duck, linen, 36 inches, 9½ oz. per yard—	} 11952	526
Poles—		
Ridge—		
Upright—		
Valises— <i>To become obsolete.</i>	}	
Tin, mineral jelly, 3 oz. (I.)	11950	525
Tools, armourers:—		
Anvil, stock butt, rifle, short, M.L.E., (I.)	} 11951	525
Wagons:—		
Ammunition, B.L., 15-pr. II.**)	11961	540
Forge, R.E. (IV.)— <i>Tools not to be carried on outside of wagons; fittings abolished.</i>	} 11986	564
Watch, stop, ⅓ second. (II.)— <i>Use extended to Naval Service.</i>	} 11991	567

515

1st January, 1904.

[§§ 11946 to 11991.]

(WEEDON SECTION.)

11946.—Pump, mineral jelly.

(Mark I.)

..

L

Brass; for filling Oil
bottles, and Tin,
mineral jelly.

A pattern of the above-mentioned pump has been sealed to govern manufacture and supply to units in proportions which will be announced in Army Orders as amendments to the several sections of the Equipment Regulations.

17th Aug. 1903.

57

Gen. No

2630

It consists of a brass tube fitted with a piston rod on which is fixed a stop washer to give a 3-inch stroke which only permits the quantity of mineral jelly required to fill the Mark III. oil bottle (§ 10122) to be drawn up. When the pump is required for the "Tin, mineral jelly" (§ 11950), armourers will unsolder the stop washer, and move it forward on the rod to give an 8-inch stroke, and resolder. With the washer in this position the tin may be filled by two fillings of the pump. The nozzle of the pump is of triangular form, to enable the air to escape from the bottle or tin as the mineral jelly enters.

Instructions for use.

Take out the stopper of the oil bottle or cork of the tin. The oil bottle should be held by a second person, or fixed perpendicularly in any convenient place.

Place the nozzle only of the pump in the jelly and draw the handle slowly up to the stop, wipe or scrape off the surplus jelly from the nozzle, insert it in the mouth of the bottle or tin, and press the plunger slowly home. When filling the tin, mineral jelly, this must be done a second time.

14th Sept. 1903.

7669

8780

6th Nov. 1902.

8795

23rd Dec. 1902.

8653

3rd July 1903.

77

15

3727

1st July 1903.

7669

8664

11947.—Rifle, short, magazine,

Lee-Enfield. (Mark I.)

C

§ 11715 cancelled.

Consequent on the addition of a wind-gauge and its components to the backsight, and the replacement of the rivets, handguard, cap, and sight protector by screws, § 11715 is hereby cancelled, and the following is published in substitution :—

A pattern of the above-mentioned rifle, as shown in the

(646)

A

accompanying drawings (page 517), has been sealed to govern future manufacture.

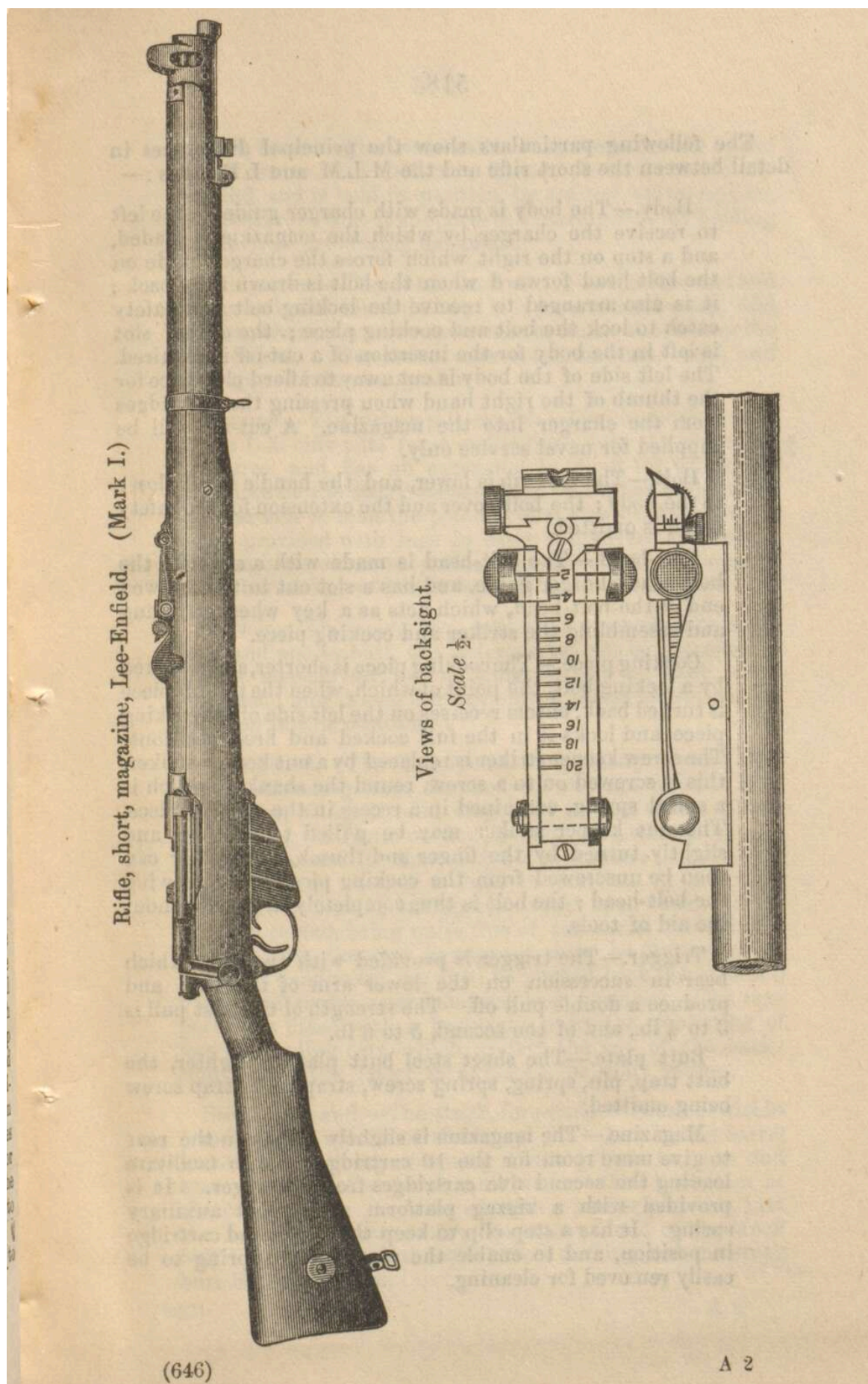
The rifle is about $1\frac{1}{4}$ lb. lighter, and 5 inches shorter than the "Rifle, M.L.E., Mark I.," § 8117.

The magazine will hold 10 rounds, and is filled by cartridges carried in chargers, § 11753; guides to hold the latter are provided on the bolt head and body, while the five cartridges held in the charger are swept out of it by the thumb into the magazine. The bolt and cocking piece may be locked in the "full cock" and "fired" positions by a safety catch, and locking bolt, situated on the left side of the body, between it and the aperture sight; they are held in position by the aperture sight spring.

Barrel.—The barrel is smaller in diameter externally, and 5 inches shorter than that of the L.E. rifle; it is fitted with a band which carries the block foresight, this is keyed and pinned to the barrel, and is dovetailed to carry the adjustable barleycorn foresight (three heights of which will be provided, known as high, normal, and low, and marked "H," "N," and "L," respectively), to enable variations in shooting to be corrected before the rifle is issued to the Service. The heights of the high and low barleycorns differ from the normal by .015 inch.

Backsight.—The backsight is fitted with a leaf pivoted to the bed at the front end; at the rear end a vertical cap and horizontal wind-gauge are fitted, a V being cut in the latter. Elevation is given by moving the slide, which rests on curved ramps on each side of the bed. The leaf is graduated by lines for every 100 yards from 200 to 2,000, the even numbers being marked by figures. The slide can be set at any 100 yards graduation or intermediate 50 yards elevation, and is held in position by means of catches engaging in notches on each side of the leaf. To set the slide these catches are disengaged from the notches by pressing the bone studs at each side of the slide. The cap is joined to the leaf by a vertical dovetail, and it can be given a fine adjustment for intermediate ranges between the 50 yards elevation afforded by the slide by means of a vertical screw underneath the cap of the backsight; a small scale with divisions of .0318 inch being provided on the left edge of the cap and leaf. The wind-gauge fitted in the vertical cap is moved horizontally by means of a screw; a scale is marked on the wind-gauge and cap with divisions of .0318 inch. Each division on the wind-gauge and fine elevation adjustment represents 6 inches per 100 yards. A slot is cut in the top front edge of the cap for the thumb nail to be inserted to act as a stop to facilitate the centring of the wind-gauge in the dusk. By raising the cap to its highest limit, 2,050 yards elevation can be obtained.

The dial sight for long ranges is graduated from 1,600 to 2,800 yards.



The following particulars show the principal differences in detail between the short rifle and the M.L.M. and L.E. rifles :—

Body.—The body is made with charger guide on the left to receive the charger by which the magazine is loaded, and a stop on the right which forces the charger guide on the bolt head forward when the bolt is drawn fully back ; it is also arranged to receive the locking bolt and safety catch to lock the bolt and cocking piece ; the cut-off slot is left in the body for the insertion of a cut-off if required. The left side of the body is cut away to afford clearance for the thumb of the right hand when pressing the cartridges from the charger into the magazine. A cut-off will be supplied for naval service only.

Bolt.—The bolt rib is lower, and the handle is set closer to the body ; the bolt cover and the extension for the safety catch is omitted.

Bolt-head.—The bolt-head is made with a slide for the bolt-head charger guide, and has a slot cut in the screwed end of the bolt-head, which acts as a key when stripping and assembling the striker and cocking piece.

Cocking piece.—The cocking piece is shorter, and is locked by a locking bolt, the point of which, when the thumb piece is turned back, enters recesses on the left side of the cocking piece and locks it in the full cocked and fired positions. The screw keeper striker is replaced by a nut keeper striker, this is screwed on to a screw, round the shank of which is a spiral spring, contained in a recess in the cocking piece. The nut keeper striker may be pulled to the rear and slightly turned by the finger and thumb, the striker can then be unscrewed from the cocking piece by unscrewing the bolt-head ; the bolt is thus completely stripped without the aid of tools.

Trigger.—The trigger is provided with two ribs, which bear in succession on the lower arm of the sear, and produce a double pull off. The strength of the first pull is 3 to 4 lb., and of the second, 5 to 6 lb.

Butt plate.—The sheet steel butt plate is lighter, the butt trap, pin, spring, spring screw, strap and strap screw being omitted.

Magazine.—The magazine is slightly deeper in the rear to give more room for the 10 cartridges, and so facilitate loading the second five cartridges from a charger. It is provided with a zigzag platform spring and auxiliary spring. It has a stop clip to keep the right hand cartridge in position, and to enable the platform and spring to be easily removed for cleaning.

Band, inner.—The inner band, which encircles the barrel at the centre with $\cdot 002$ -inch freedom, is fitted inside the fore-end, and is held in position by a screw, spiral spring, and washer, so that it supports the barrel, without holding it rigidly, or preventing expansion.

Band, outer.—The outer band encircles the fore-end and handguard and inner band; it is jointed at the top, and held together by a screw underneath, which also carries the sling swivel. The swivel screws for the butt, band, and nosecap, are interchangeable.

Nosecap.—The nosecap is considerably larger than that of the L.E. rifle; its front end is flush with the muzzle of the barrel, and has an extension in front on which the crosspiece of the sword-bayonet fits, and a bar underneath the rear end to hold the pommel of the sword-bayonet; it is also provided with lugs to carry the swivel and screw, and has high wings to protect the foresight; the muzzle of the barrel has $\cdot 002$ inch freedom in the barrel hole.

Swivels.—There are two swivels, one attached to outer band and one to butt, the latter swivel can be attached to lug on nosecap for use in slinging rifle on back when mounted. For Naval Service only, a piling swivel will be attached in this position.

Handguard.—The handguard completely covers the barrel, extending from the body to the nosecap; it is in two pieces, being divided diagonally at the centre of the sight bed; the front portion is held in position by the outer band, and its front end fits in a recess in the nosecap; the rear portion is held in position by a spring gripping the barrel; both portions rest upon the shoulders of the fore-end, being quite free of the barrel throughout. In stripping, the rear handguard must be first removed, the front handguard can then be pushed back clear of the nosecap after the outer band has been removed. The rear portion is fitted with a backsight protector, consisting of two upstanding ears, which protect the cap of the backsight when the latter is adjusted for short ranges.

Stock, fore-end.—The stock, fore-end, extends to within $\frac{1}{8}$ inch of the muzzle of the barrel; it is free in the barrel groove throughout, excepting about $\frac{1}{2}$ inch in front and rear of the inner band, and under the knoxform at the breech end. It is fitted with a keeper plate let into the breech end, into which the squared end of the stock bolt fits, to prevent the stock bolt turning and the stock butt becoming loose.

Stock, butt.—The stock, butt, is issued in three lengths, one $\frac{1}{2}$ inch shorter and one $\frac{1}{2}$ inch longer than the normal, and marked respectively S and L. It is fitted with a sheet steel butt plate without butt trap, as the oil bottle and pull-through are not carried in the butt. It is bored longitudinally with four holes for lightness, and is provided with a marking disc screwed into the right side. The stock bolt is shorter, and is squared at the front end to fit the keeper plate. In stripping the rifle it is necessary that the fore-end should be first removed before turning the stock bolt.

Particulars relating to rifling, sighting, weight, &c.

Length of barrel	....	....	....	25 $\frac{3}{16}$ inches.
Calibre	....	....	....	·303 inch.
Rifling	....	....	....	Enfield.
Grooves	{	number	....	5
		depth {	at muzzle	....
			at breech to within	....
			14 inches of the	....
			muzzle	....
Width of lands	....	....	....	·005 inch.
Twist of rifling, left-handed	....	....	....	·0936 inch.
				1 turn in 10 inches.

Sighting system.—Adjustable barleycorn foresight, radial backsight, with vertical adjustment and wind-gauge.

Distance between barleycorn and back-sight, V	....	....	....	feet. inches.
	....	....	....	1 7 $\frac{13}{32}$
Length of rifle	....	....	....	3 8 $\frac{9}{16}$
„ „ with sword-bayonet	....	....	....	4 8 $\frac{11}{16}$
„ sword-bayonet (over all)	....	....	....	1 4 $\frac{7}{8}$
„ „ blade	....	....	....	1 0 $\frac{1}{8}$
				lb. oz.
Weight of rifle, with magazine empty	....	....	....	8 2 $\frac{1}{2}$
„ sword-bayonet	....	....	....	1 0 $\frac{1}{2}$
„ „ scabbard	....	....	....	0 4 $\frac{1}{2}$

Ammunition same as for M.L.E., M.L.M., M.M., and M.E. arms.

The following components are special to this rifle :—

<i>Components.</i>	
Band, inner.	Pin, axis, sight, back.
„ outer.	„ fixing, bed, sight, back.
Barleycorns foresight—	„ „ block, band, fore-
High.	sight.
Low.	„ „ stud, head, catch,
Normal.	slide, sight, back
Barrel.	(2).
Bed, sight, back.	„ „ washer, pin, axis,
Block, band, foresight.	sight, back.
Body.	„ joint, band, outer.
Bolt.	Plate, dial, sight.
Bolt head.	„ keeper, screw, wind-
„ charger guide.	gauge.
Butt plate.	Platform, magazine.
Bolt, stock.	
	Screw, dial sight, fixing.
Clip, stop, magazine.	„ fine adjustment sight
Cocking piece.	leaf.
Cut-off.†	„ guard, back.
	„ nut, keeper, striker.
Extractor.	„ protector, sight, side,
	handguard, rear.
Guard, hand, front.	„ spring, sight, aperture.
„ „ cap.	„ „ „ back.
„ rear.	„ stop, charger guide.
„ „ sight pro-	„ wind-gauge.
tector.	„ band, inner.
Guard, trigger.	Screws „ outer, and swivels
	butt and piling
	(3).
Head, with catch, slide, sight	„ bed, sight, back—
leaf (2).	Back.
	Front.
Key, block, band, foresight.	„ keeper, fine adjustment,
	sight, back, and hand-
Leaf, sight, back.	guard, cap, and sight
Locking bolt.	protector, top (4).
„ safety catch.	„ nose-cap—
„ stop pins (2).	Back.
	Front.
Magazine case.	Sear.
Nosecap.	Slide, sight, back.
Nut, keeper, striker (with pin).	„ „ fine adjust-
„ screw, back, nose-cap.	ment.
	„ „ wind-gauge.

† In rifles for naval service only.

Spring, auxiliary, platform, magazine.	Stocks, butt—
" nut, keeper, striker.	Normal.
" platform, magazine.	Short.
" screw, band, inner.	Stock, fore-end.
" " wind-gauge.	Striker.
" sight, aperture.	Stud, clip, stop, magazine.
" " back.	Trigger.
Springs, catch, slide, sight leaf (2).	Washer, pin, axis, sight back.
Stem, swivel, butt.	" rivet, fore end; and
Stocks, butt—	spring, handguard
Long.	(4).
	" spring, band, inner.

Bayonet.

The pattern 1903 sword-bayonet, §§ 11716, 11717, is used with this rifle.

11948.—Rifle, short, magazine, Lee-Enfield, converted. (Mark I) ..	L	Converted from Rifle, magazine, Lee-Enfield, Mark I.*
--	---	---

2nd Nov. 1903.

7669

8732

A pattern of the above-mentioned rifle has been sealed to govern conversion as may be ordered.

The conversion is made from rifles, M.L.M., Mark I*, and consists generally in fitting the rifles with new sights, shorter and lighter barrels, and adapting them for the magazine to be filled from a charger, § 11753.

The arm is fitted to carry the sword-bayonet, pattern 1903, §§ 11716, 11717, on the nose cap.

The barrel and sights are identical with those described in § 11947.

Body.—The body of the rifle is altered to receive the magazine, rifle, short, M.L.E., Mark I., the charger and the new locking and safety bolts.

Bolt.—The bolt has the cover stops and a portion of the top of the rib removed, the cover screw holes filled in, and hole bored for screw, keeper, screw head, bolt breech.

Bolt head.—A slot is cut in the tang of the bolt head, which acts as a key when stripping and assembling the striker and cocking piece; the screw, keeper, screw bolt head, and screw, bolt head, first being removed.

Dial sight plate.—The dial sight plate has the original lining removed, and is relined and marked.

Dial sight pointer.—The dial sight pointer is fitted with a new bead.

Guard.—The guard is expanded to receive the magazine, rifle, short, M.L.E., Mark I. A piece is brazed in the magazine slot for magazine seating, the swivel boss is removed, and a new link loop is fitted to receive link, Rifle M.L.M., Mark II.; it is also lightened.

Stock butt.—The stock butt is reduced externally, and bored longitudinally with three holes for lightness; it is arranged to take the butt plate and stock bolt, rifle, short, M.L.E., Mark I. When the stock butt is small at the socket end, the shoulders and end are cut back $\frac{3}{16}$ inch, this shortens the converted rifle, as compared with the new, by about $\frac{1}{4}$ inch.

In packing converted rifles, an additional packing piece, $\frac{1}{4}$ inch thick, will be required, inserted at the end of the chest behind the bridge fittings.

Stock, fore-end.—The stock, fore-end, has a liner fitted and glued in; it is opened to receive the altered body; the clearing rod slot and the band pin hole are filled up.

It is arranged to take the stock bolt keeper plate.

All dimensions, weights, &c., are the same as for rifle, short, M.L.E., Mark I., § 11947, and converted, Mark II., § 11949.

The following components are special to this rifle:—

+Body.

+Bolt.

Bolt head.

+Stock, butt.

+Stock, fore end.

Screw, bolt head.

+ Components marked thus are converted from rifle, M.L.M., Mark I.*

All other components are common to rifle, short, M.L.E. Mark I., § 11947, and rifle, short, M.L.E., converted, Mark II., § 11949.

11949.—Rifle, short, magazine
Lee - Enfield, con-
verted. (Mark II.) .. C

Converted from rifles,
magazine, L.E., Marks
I. and I.*, and maga-
zine, L.M., Marks II.
and II.*

16th Jan. 1903.

7669

8677

14th Oct. 1903.

8780

6th Nov. 1903.

8795

A pattern of the above-mentioned rifle has been sealed to govern conversion as may be ordered. The rifle is very similar to the "Rifle, short, magazine, Lee-Enfield" § 11947.

The conversion is made from rifles, M.L.E., Marks I. and I.*, and M.L.M., Marks II. and II.*, and consists generally in fitting the rifles with new sights, shorter and lighter barrels, and adapting them for the magazine to be filled from a charger, § 11753.

The arm is fitted to carry the sword-bayonet, pattern 1903, §§ 11716, 11717, on the nosecap.

The barrel, sights, handguards, and nosecap are identical with those described in § 11947.

Body.—The body of the rifle is altered to receive the charger and the new locking and safety bolts.

Bolt.—The bolt has the cover lugs and the extension on the rear end for safety catch arrangement removed, and striker hole bushed. In the M.L.M. Mark II. rifles the cover lugs only have been removed.

Bolt head.—The bolt head is altered to receive the charger guide, and has a slot cut in the screwed end of the bolt head which acts as a key when stripping and assembling the striker and cocking piece.

Guard.—The guard has a slot cut in the back to lighten it, and is freed at the front to clear the stop clip of the magazine.

Stock fore-end.—The stock fore-end has a liner fitted and glued in; the swivel slot and lower band pin hole are filled up, and the fore-end reduced externally; and an extra stop pin for the outer band is fitted.

Stock butt.—The stock butt is reduced externally, bored longitudinally with four holes for lightness, the stock bolt hole deepened, and recess at socket end cut to clear locking bolt, and recess for butt plate strap filled up; it is also fitted with a marking disc. The butt plate is of sheet steel without a trap for the oil bottle, which is not carried in the butt.

When the stock butt is small at the socket end the shoulder and end are cut back $\frac{3}{16}$ inch. This shortens the converted rifle as compared with the new by about $\frac{1}{4}$ inch.

In packing converted rifles an additional packing piece $\frac{1}{4}$ inch thick will be required, inserted at the end of the chest behind the bridge fittings.

All dimensions, weights, &c., are the same as for the "rifle, short, M.L.E., Mark I.," § 11947.

All components are interchangeable with the new short rifle, M.L.E., § 11947, with the following exceptions:—

Screw guard, back,
Washers, rivet, fore-end (2),
Spring, sight, aperture,
Screw, spring, sight, aperture,

which are the same as for the rifle, M.L.E., Mark I.*

525

11950.—Tin, mineral jelly, 3-oz.

(Mark I.) L

Tin, with cork and
spoon, Rifle, short,
M.L.E.

Cover, tin, mineral jelly,

3 oz. (Mark I.) L

Canvas, with stud.

As materials for cleaning rifle will not be carried in the butt of the short rifle the above-mentioned articles have been sealed for carrying them, and will be manufactured in future.

29th Oct. 1903.

7669

8785

4th Dec. 1903.

57

Gen. No.

4880

The use of the "Bottle, oil, Mark III." will be confined to the carbine and long rifle.

The tin is made with two compartments, the large one for mineral jelly, the small one for the folded pull-through. The former is closed by a cork to which a spoon and a brass lifting ring are fitted.

The lid of the tin is shaped to receive strips of flannelette.

Mineral jelly (§ 11957) for greasing the bore of the rifle, the feet, and boots will be carried in the large compartment.

The canvas cover in which the tin is carried is provided with a stud and stud hole to fasten the top flap. A loop at the back of the cover enables it to be carried on the waist belt by infantry, and on the bandolier by cavalry.

11951.—Tools, armourers—

Anvil, stock butt,

rifle, short, M.L.E.

(Mark I.) C

Gunmetal, for attaching
stocks butt.

A pattern of the above-mentioned anvil has been sealed to govern manufacture.

13th Oct. 1903.

7669

8784

The anvil is for use of armourers when attaching stocks butt; it is provided with a stud to enter the stock bolt hole, and the under surface is made concave to fit the convex surface of the butt. The butt will be inserted in the socket of the body, and the anvil placed in position on the end of the butt, which will then be driven home with a mallet or hammer. The anvil should then be withdrawn and the stock bolt inserted and screwed up, care being taken that the square end of the stock bolt protrudes through the face of the body about $\frac{1}{8}$ inch, and is in correct vertical position.

526

(WOOLWICH SECTION, No. 2.)

11952.—Tent, signallers—

Valises	..	..	..	Inner and outer roof and two weather lines 22 feet long, two loop washers, and tying up cords.
Poles { ridge	..	..	..	Canvas, 3 feet 2 inches by 2 feet.
upright	..	..	..	In two pieces.
Duck, linen, 36 inches, 9½ oz. per yard..	..	..	..	In two pieces (2 to a set). For signallers ten's.

To become obsolete.

24th Aug. 1903.

40116

7723

No more supplies of the above-mentioned tents, valises, poles and linen duck (§ 4860) will be obtained, and when the existing stock has been used up the patterns will become obsolete.

(WOOLWICH SECTION, No. 4.)

11953.—Cart, small-arm ammunition,

Mark II.**	Steel frame, with grease box, seat and brake; fitted for pole or shaft draught.
------------------	---

Alterations to Mark II.* carts to carry small-arm ammunition in chargers.

7th Aug. 1903.

28th Oct. 1903.

10th Dec. 1903.

21st Dec. 1903.

57

Gen. No.

4357

"Carts, small-arm ammunition, Mark II.*" (§ 10804) will be modified so as to carry ammunition as follows:—

(a.) 16 boxes ammunition, S.A., 1,000 rounds in chargers; or—

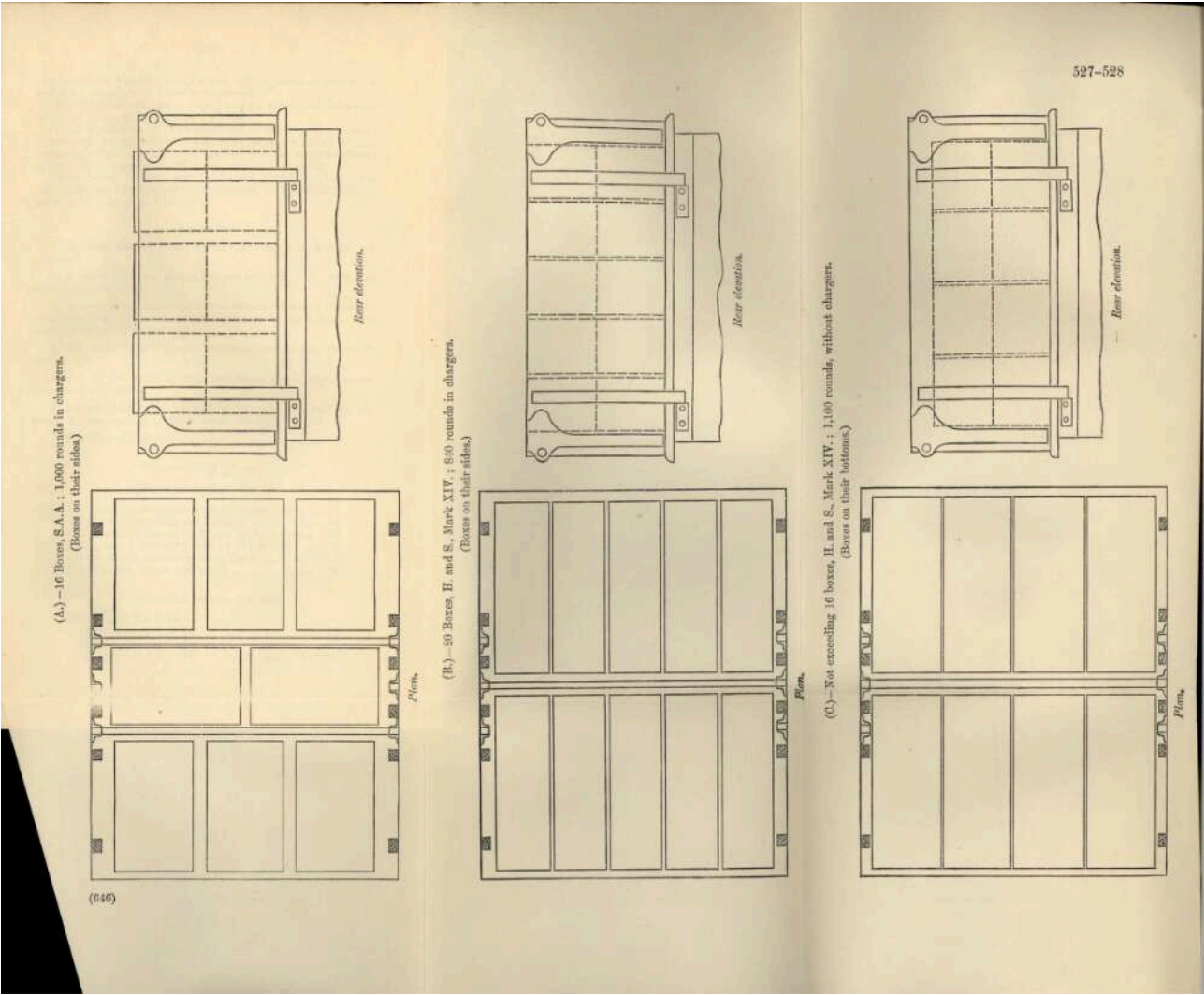
(b.) 20 boxes "G.S., Mark XI.," or "Home and special Mark XIV.," each with 840 rounds in chargers.

A mixed load of both above types of boxes can also be taken by suitable adjustment of the bars; total must not exceed 20 boxes.

Or, (when required) —

(c.) Not exceeding 16 boxes "G.S., Mark XI.," or "Home and special, Mark XIV.," each with 1,100 rounds without chargers.

The modifications consist in making the roof of the cart to open, and attaching three brackets to each side of the cart for



two removable "loading bars," which will be placed in position to suit the description of boxes to be carried.

Each load (as indicated at (a), (b), and (c), above), will be carried as shown in the accompanying drawings.

These alterations will be carried out to existing carts locally, in accordance with instructions detailed below, for which purpose instructional print R.C.D. 1107, together with the undermentioned stores, will be supplied to officers concerned on demand.

Carts, when altered, will be known as "Mark II.**," the additional star being added to the numeral on the distinguishing plate, as laid down in § 11205.

Instructions.

1. Remove the internal fittings except the battens on tailboard.
2. Remove the lower part of the roof joints on "off" side, and replace by new hasps.
3. Reduce the centre cross bar of the roof from $3\frac{3}{4}$ inches to $2\frac{1}{2}$ inches in depth at the centre, beginning at the bottom edge inside of the sides of the roof.
4. Fix to the "off" side two turnbuckles to engage the hasps on the roof.
5. Fix to the front of roof, and front board, plates staple, connected with chain.
6. Attach brackets for supporting bars, loading, and fix the staple of bars, loading, to the sides of the cart.
7. Fix fillet and cleats.

Stores required per cart.

(Woolwich Section, No. 4.)

	No.
Bars, loading, complete, with chain and staple. ..	2
Brackets, supporting, bar, loading	6
Cleats, ash, $1\frac{1}{2}$ inches by 1 inch by $9\frac{1}{2}$ inches ...	12
Fillet, ash, 1 inch by $\frac{1}{2}$ inch by $27\frac{1}{2}$ inches	1
Plates, staple, connected with chain	2
Turnbuckles, hasps, and rivets ...	2

(Woolwich Section, No. 10.)

Screw, iron, flat head—

$1\frac{3}{4}$ -inch, gauge No. 14	....	....	....	24
1 " " 12	....	....	....	28
$\frac{3}{4}$ " " 10	...	....	....	16

(WOOLWICH SECTION, No. 5.)

11954.- Saddlery, officers:—

Cases, horse-shoe —

Near. (Mark III.) ..

With two attachment straps, steadying strap, and frog for sword.

Off. (Mark II.) ..

With two attachment straps and buckles.

Collars, head —

With browband and $\frac{3}{4}$ -inch throat lash.

Large. (Mark II.)

Small. (Mark II.)

Girths, web —

Blue.

Long, pairs. (Mark III.) {

One 5 inches by 47 inches; one $2\frac{7}{8}$ inches by 47 inches.

Short, pairs. (Mark III.) {

One 5 inches by 43 inches; one $2\frac{7}{8}$ inches by 43 inches.

Leathers, stirrup. (Mark II.)

 $1\frac{3}{8}$ inches wide, double buckle.Runners, stirrup leather, $1\frac{7}{16}$ inches. (Mark I.)..Brass; for $1\frac{3}{8}$ -inch leathers.

Saddles, universal —

Tree, seat, flaps, girth straps and pannels.

Large. (Mark IV.)

Small. (Mark IV.)

Wallets, pair. (Mark III.)

Leather, with covers and double gussets.

23rd July 1903.

14th Aug. 1903.

19th Aug. 1903.

57

Gen. No.

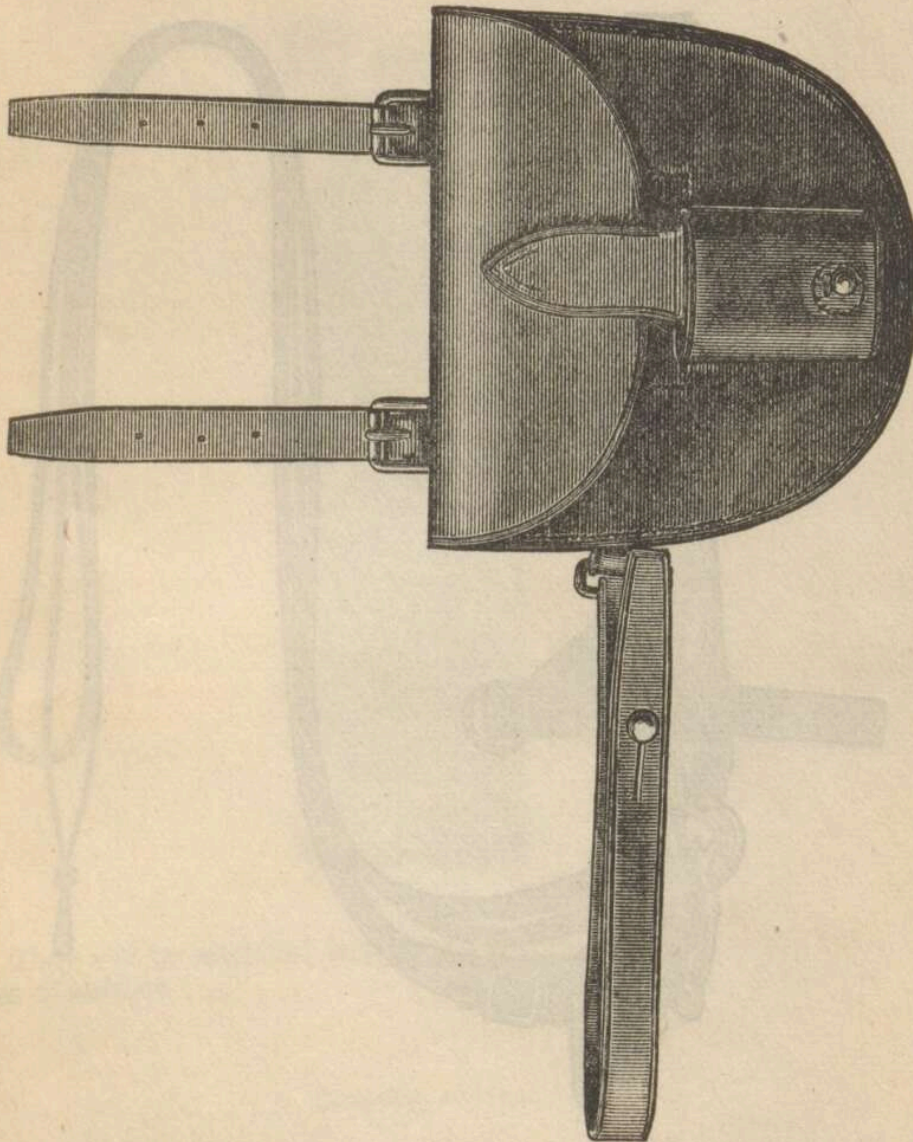
4283

Patterns of the above-mentioned articles have been sealed to govern future manufacture.

They will be issued when the present stock of officers saddlery is exhausted, or when specially ordered.

531

Cases, horse shoe, near and off.



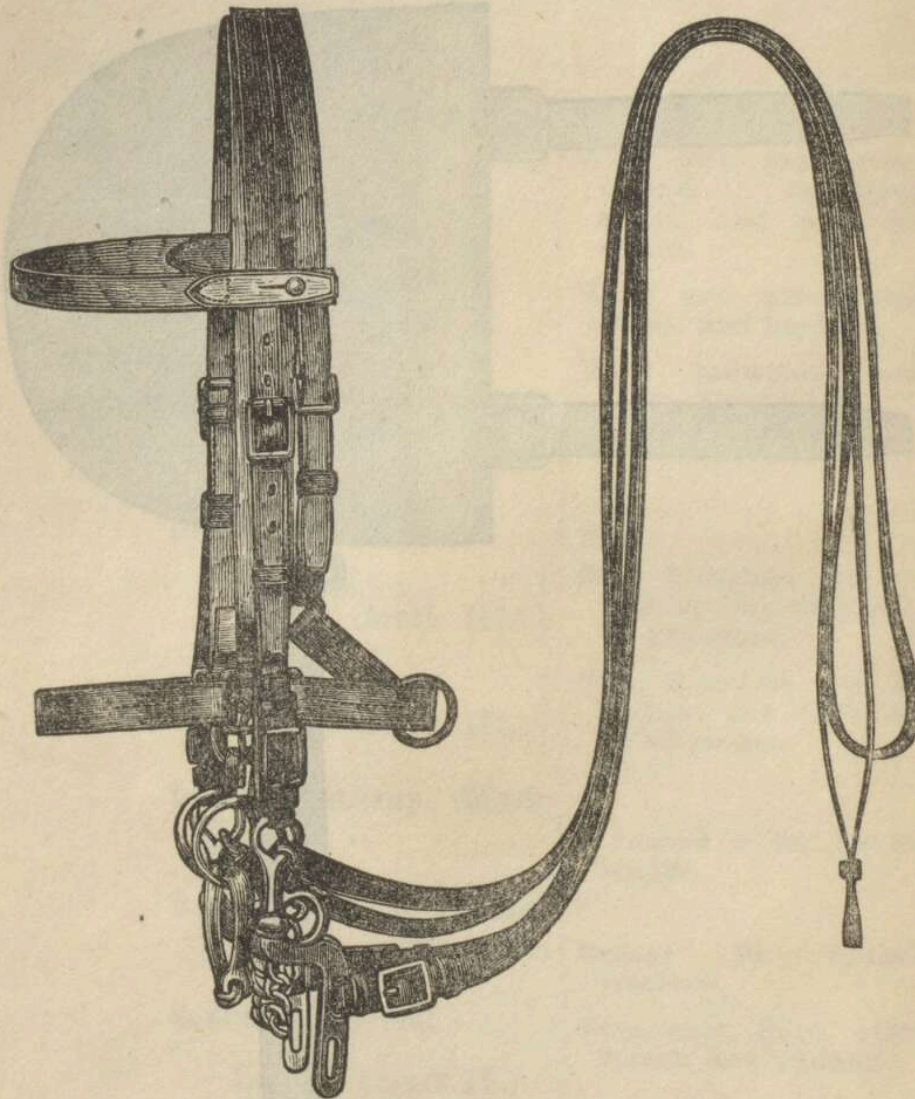
These differ from previous patterns in having two straps with buckles on each, for attaching to dees on saddle, instead of one strap and buckle for passing round the hind arch. (The above drawing shows the near case.)

Collar, head.

This is without bosses; it has a throat lash $\frac{3}{4}$ inch in width (that on previous pattern was 1 inch); the jowl rings are

532

$1\frac{1}{4}$ inches and $1\frac{1}{8}$ inches in diameter respectively. The collar is made lighter throughout. (The drawing below shows the bridoon,



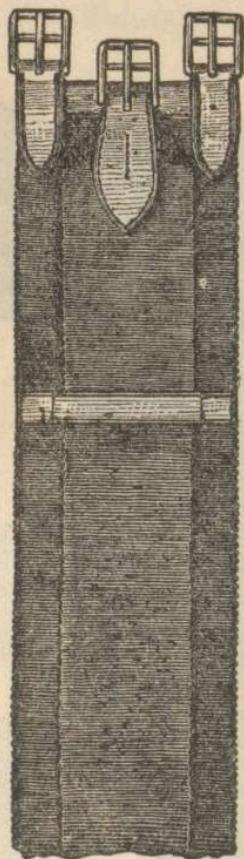
and reins, bit head and reins, officers pattern, and the reversible portsmouth bit.)

Girths, web.

These are of blue woollen web. One broad (5 inches) and one narrow ($2\frac{7}{8}$ inches) will be supplied with each saddle and designated a "pair."

533

They are fitted with solid nickel buckles --two on each end of the broad one, and one on the narrow.



They will be made in two sizes—long and short, for the two sizes of saddles.

Leathers, stirrup.

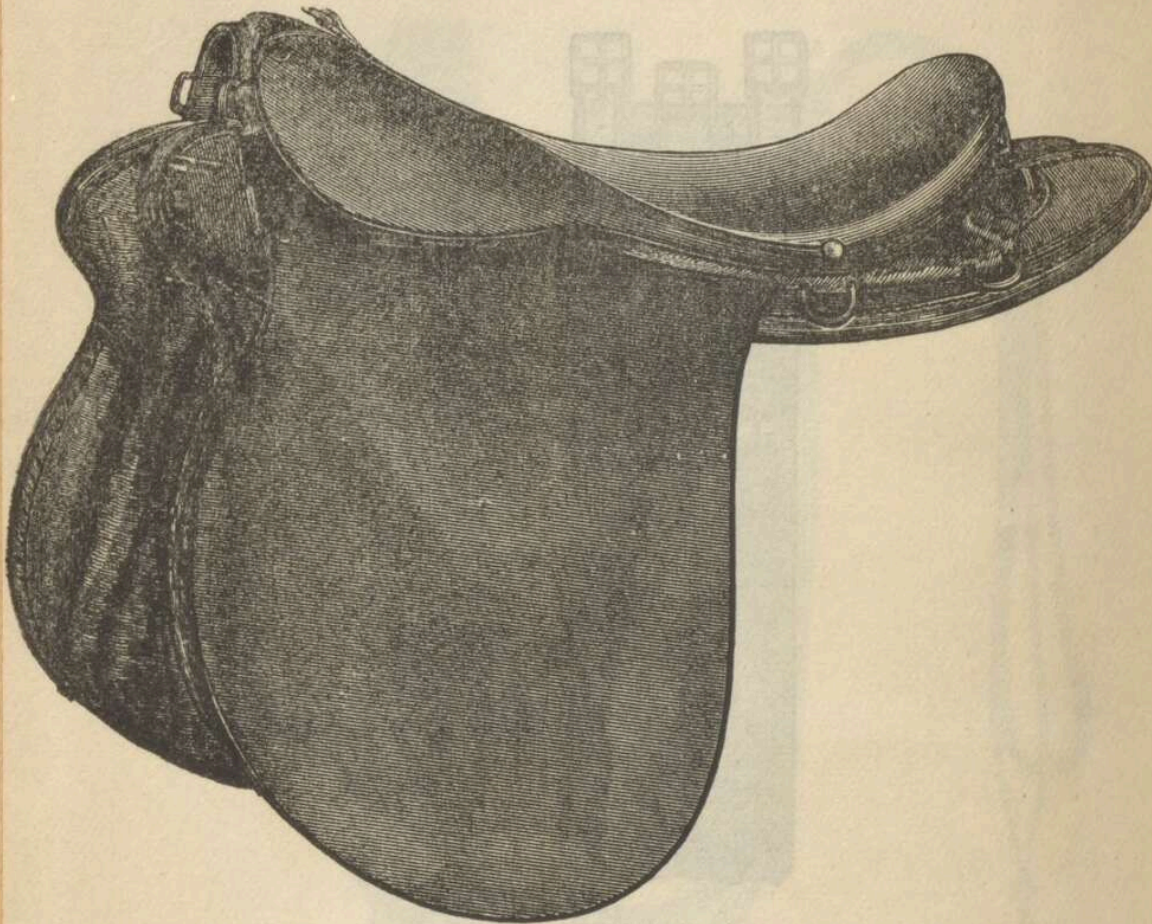
These are $\frac{1}{8}$ inch wider than Mark I., and are fitted with solid nickel buckles.

Runner, stirrup leather.

This differs from the G.S. pattern in being wider and lighter ; its dimensions are $1\frac{7}{16}$ inches by $\frac{1}{2}$ inch by $\frac{5}{8}$ inch, internal measurement.

534

Saddle.



This pattern has been hitherto known as the "Staff" pattern. The tree is similar to that used on a hunting saddle, but with side bars extended behind the cantle, and points of front arch very broad in the bearings.

Length of side bars— $23\frac{1}{2}$ inches large size, and 23 inches small.

The seat and skirts are of hogskin. The flaps are of solid leather, made without rolls.

Length of seat measured from extreme edge of front to cantle about $17\frac{3}{4}$ inches.

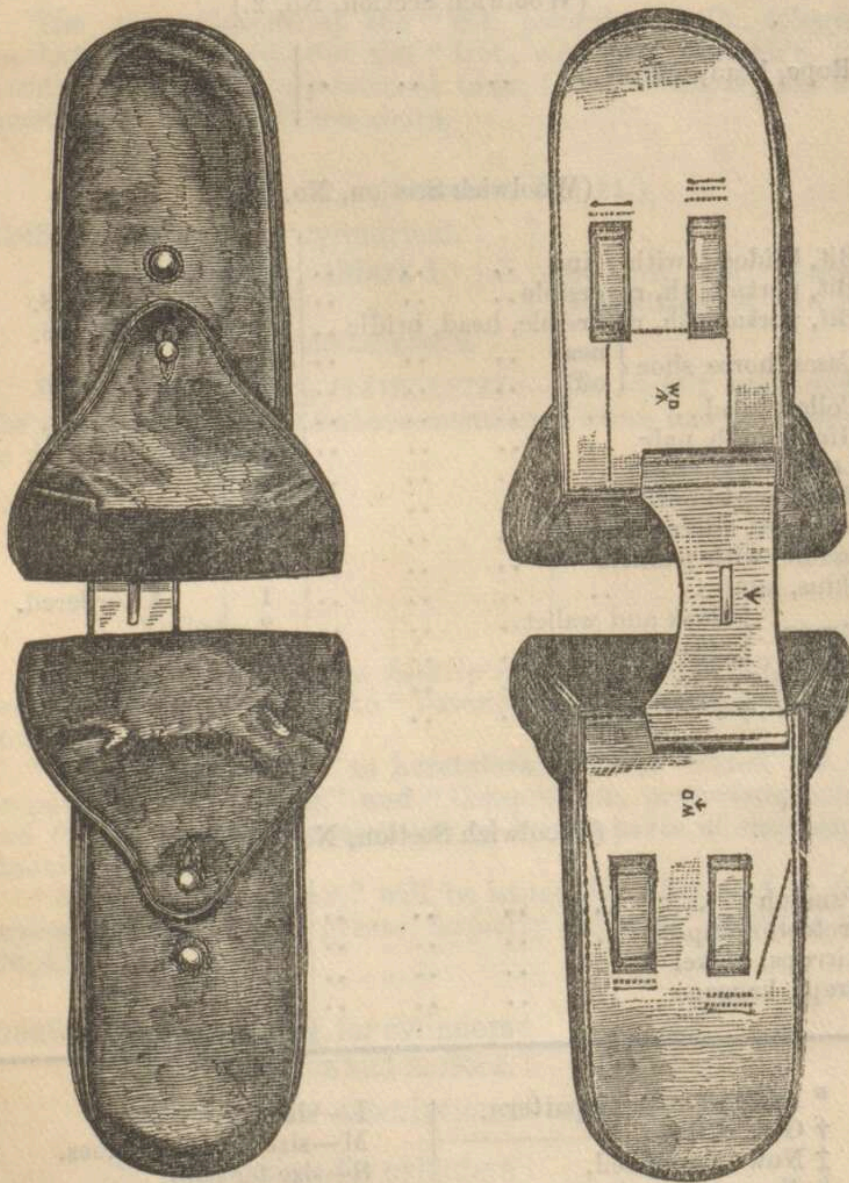
The pannels are basil, leather lined, and stuffed with white wool flock.

The dees and loops are of brass.

The saddles will be issued in two sizes—large for horses, and small for cobs.

535

Wallets.



These differ from Mark II. in having the front loops $\frac{3}{4}$ inch and the back ones 1 inch higher.

537

(WOOLWICH SECTION, No. 7.)

11955.—Irons, soldering—

Telegraph mechanics .. With handle, $\frac{1}{2}$ lb.Tinmans With handle, $2\frac{5}{10}$ lb.

Nomenclature.

The nomenclature of the "Bit, soldering, $\frac{1}{2}$ lb., telegraph mechanics" (§ 4589), and the "Iron, soldering, tinman's, with handle" (not previously referred to in *List of Changes*), has been amended to read as shown above.

23rd Nov. 1903.

57

24

4901

(WOOLWICH SECTION, No. 11.)

11956.—Drum, cylindrical,
5 $\frac{1}{4}$ gallons. (Mark I.)

L

For oil for Lamps,
signalling, A and B.

Nomenclature.

With reference to §§ 11418, 11727 :—The detail appended to the nomenclature of the above-mentioned store has been altered to read as now shown.

11th Dec. 1903.

53

Malta

8523

11957.—Mineral jelly—

Red.

Yellow.

In future the above two descriptions of mineral jelly (which are similar in composition to "Vaseline") will be issued as service stores.

29th Oct. 1903.

7669

8785

"Mineral jelly, red," as heretofore, will be issued for the preparation of "Luting," and "Composition, preserving arms," and for the general preservation of bright parts of mountings, machinery, &c.

"Mineral jelly, yellow," will be issued for rifles, and as foot-grease in place of the grease formerly supplied, which is now obsolete.

11958.—Oil, lubricating, for cylinders
of gas engines and motors.

New description of oil.

Oil, lubricating, for cylinders
of oil engines.

Restricted use and nomenclature.

Oil, lubricating, for cylinders of gas and oil engines (§ 8011)

18th Nov. 1903.

57

Gen No.

4406

having been found not to meet all requirements for gas engines, and motors, a new description of oil, to be known as "Oil, lubricating, for cylinders of gas engines and motors," has been introduced, for use with gas engines and motors only. For oil engines the oil (§ 8011) hitherto supplied, which will in future be described as "Oil, lubricating, for cylinders of oil engines," as shown above, will continue to be used.

(WOOLWICH SECTION, No. 13.)

11959.—Carriage, field, Q.F., 15-pr., Mark I.	L	Steel; with hydraulic buffer, 2 pockets (firing wedge and key setting fuze), and clinometer case.
--	---	---

Field clinometer to be carried on carriage.

16th Sept. 1903.
54
*Artillery
504

Carriages of the above-mentioned description (§ 10726) will in future, carry the field clinometer in a felt padded leather case, attached to back of the left (firing front) axletree seat.

The leather case is carried by a bracket riveted to the two back stays of the seat, the case being secured in position by straps.

This alteration will be carried out locally to existing carriages not already so fitted, in accordance with instructional print R.C.D. 1111, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

On receipt of the new pattern clinometer case, the old pattern will be returned to store.

The felt padded clinometer case will now be regarded as a component of the Q.F. 15-pr. carriage. The details appended to nomenclature have been amended as shown above.

Stores per carriage.

	No.
Bracket, carrying, clinometer	1
Strap, securing, $\frac{3}{4}$ inch by 18 inches	1
Rivets, boss head { $\frac{1}{4}$ inch diameter by $\frac{3}{4}$ inch	3
{ $\frac{3}{16}$ inch diameter by $\frac{3}{4}$ inch	4
Case, clinometer, Q.F., 15-pr., with steadying strap	1

11960.—Gun-arcs:—

Wood; with three adjustable fore sights and leather strap.

B.L.—12-pr. 6 cwt. Mark I.
gun. (Mark I.) .. L12-pr. 6 cwt. Mark II.
gun. (Mark I.) .. L12-pr. 6 cwt. Mark IV.
gun. (Mark I.) .. L15-pr. Mark I. gun.
(Mark I.) L15-pr. Mark II. gun.
(Mark I.) L15-pr. Mark IV. gun.
(Mark I.) L5-inch howitzer.
(Mark I.) LQ.F.—

15-pr. gun. (Mark I.) L

4·7-inch B, Marks I.
to IV.* guns.
(Mark I.) LFor guns on travelling
carriages.

Patterns of the above-mentioned gun-arcs have been approved 13th March 1903.
to govern manufacture.

The arcs form a portion of the indirect laying stores for R.H. and R.F.A., and heavy batteries R.G.A., and are designed to give 30 degrees deflection right and left (except 15-pr. Q F., which allows 30 degrees deflection right and 25½ degrees left), by means of an adjustable fore sight. They are provided as a temporary expedient pending the introduction of sights capable of giving large angles of deflection.

An arc consists of a board about 3 feet 6 inches long and ½ inch wide, and is graduated on its rear face in ½ degrees from 0 degree to 30 degrees right and left (except 15-pr. Q.F.). A hole for each graduation is drilled in the top for the reception of an acorn pointed fore sight, the lower edge of the arc being shaped to suit the particular Mark of gun with which it is used. A leather strap is supplied with each arc to secure it in position.

54

Artillery

843

27th April 1903.

30th June 1903.

911

540

11961.—Limber, field, B.L.,
15-pr., Mark II.** .. L

Steel, carriage and wagon; with grease box, 4 fuze boxes, sight box, oil can, leather case, draught pole No. 17, pole bar No. 2, and 2 swingletrees No. 10a; converted 12-pr. 7-cwt. I.P.

Wagon, ammunition,
B.L., 15-pr., Mark II.** .. L

Steel; with 2 grease magazine boxes, 4 fuze boxes, and 2—10-ft. lashings; converted 12-pr. 7-cwt. I.P.

13th Oct. 1903.

54

Artillery

1399

Certain B.L. 12-pr. 7-cwt. limbers and ammunition wagons of Indian pattern have been issued for use in Imperial service. Such limbers and ammunition wagons will be known under the nomenclature shown above.

The frames of the vehicles are generally similar to the B.L. 15-pr. Mark II. (§ 8162), and the ammunition boxes to those of the B.L. 12-pr. Mark I. vehicles (§ 5362). The tire brake on the ammunition wagon is of a special pattern; on some it acts on the front part of the wheels, on others on the rear.

The wheels are 2nd class C, No. 41 or 42, but wheels 2nd class C, No. 35A, can be used.

(WOOLWICH SECTION, No. 14.)

11962.—Carriages, garrison,
barbette—

B.L., 9·2-inch.
(Marks III. to
V.) L

B.L., 10-inch.
(Mark IV.) .. L

Scale plates of elevation indicators to be graduated for $\frac{3}{4}$ and full charges.

14th Aug. 1903.

4th Oct. 1903.

84

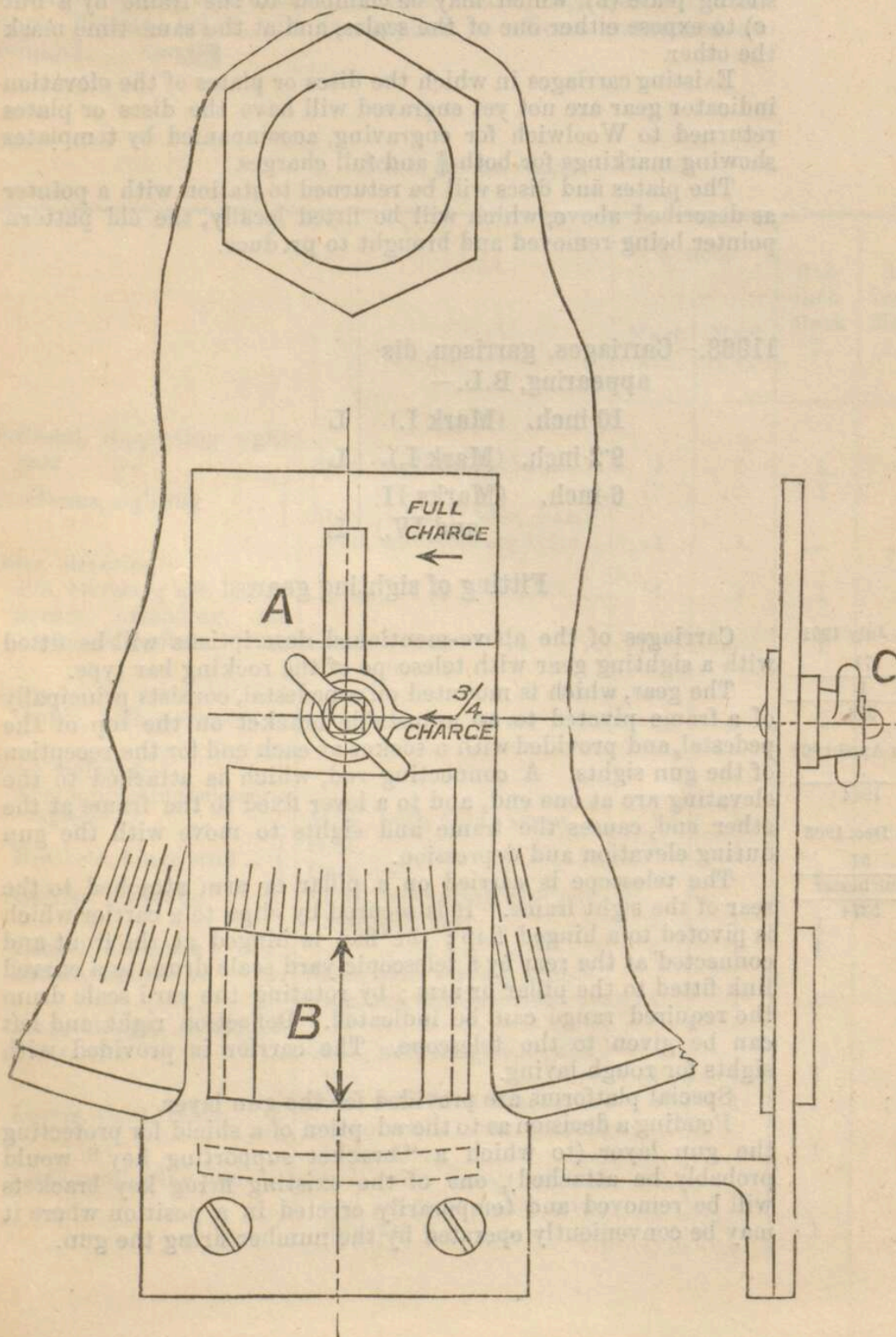
D

2877

In future manufacture of carriages of the above-mentioned descriptions (§§ 10136, 10446, 10867, 11676), the graduations on the scale plates or discs of the elevation indicator gear for full and $\frac{3}{4}$ charges will be engraved on the same side, and an adjustable pointer will be provided.

541

Scale $\frac{1}{2}$.



The pointer is in the form shown in the accompanying drawing (p. 541), and consists principally of an open frame (A) with a sliding plate (B), which may be clamped to the frame by a nut (C) to expose either one of the scales, and at the same time mask the other.

Existing carriages in which the discs or plates of the elevation indicator gear are not yet engraved will have the discs or plates returned to Woolwich for engraving, accompanied by templates showing markings for both $\frac{3}{4}$ and full charges.

The plates and discs will be returned to station with a pointer as described above, which will be fitted locally, the old pattern pointer being removed and brought to produce.

11963.— Carriages, garrison, disappearing, B.L.—	
10-inch. (Mark I.)..	L
9'2-inch. (Mark I.)..	L
6-inch. (Marks II. and IV.)	L

Fitting of sighting gear.

31st July 1901.

71

1

819

28th April 1902.

1984

7th Dec. 1903.

57

Colchester

5274

Carriages of the above-mentioned descriptions will be fitted with a sighting gear with telescope of the rocking bar type.

The gear, which is mounted on a pedestal, consists principally of a frame pivoted to an adjustable bracket on the top of the pedestal, and provided with a socket at each end for the reception of the gun sights. A connecting rod, which is attached to the elevating arc at one end, and to a lever fixed to the frame at the other end, causes the frame and sights to move with the gun during elevation and depression.

The telescope is carried on a pillar or arm attached to the rear of the sight frame. It is secured by clips to a carrier which is pivoted to a hinged flap; the flap is hinged at the front and connected at the rear by a telescopic yard scale drum to a curved link fitted to the pillar or arm; by rotating the yard scale drum the required range can be indicated. Deflection right and left can be given to the telescope. The carrier is provided with sights for rough laying.

Special platforms are provided for the gun layer.

Pending a decision as to the adoption of a shield for protecting the gun layer (to which a "bracket supporting key" would probably be attached), one of the existing firing key brackets will be removed and temporarily erected in a position where it may be conveniently operated by the number firing the gun.

This service will be carried out locally in accordance with the undermentioned instructional prints, which, together with the stores detailed below, will be supplied to officers concerned on demand.

Stores per carriage.

		6-inch.		9·2-inch	10-inch
		Mark II.	Mark IV.	Mark I.	Mark I.
Pedestal, supporting sight gear	Steel, with fixing bolts ..	1	1	1	1
Platforms, sighting .. {	Steel, with ladder, hand-rail, and securing bolts ..	1	1	1	1
Gear, elevating—					
Pin, elevating arc, left ..	.. .. .	1	1	1	1
Socket, extending, 1st motion shaft	Steel .. .. .	..	..	1	1
Gear, raising valve—					
Guide, with stays ..	.. .. .	..	..	1	1
Gear, sighting—					
Arm supporting telescope carrier	M.B., with fixing screw ..	1	1	..	..
Brackets, hinge stud .. {	G.M.	1	1	..	..
Carrier, telescope ..	Cast steel .. .. .	..	..	1	1
	G.M., with pivot with nut and split key	1	1	1	1
Drum, yard scale ..	.. .. .	1	1	1	1
Frame, sights	Steel, with screws, adjusting, set, and securing ..	1	1	1	1
Flap, hinge, telescope carrier	G.M., with hinge bolt, and nut	1	1	1	1
Levers, sight frame {	Steel, with M.B. bracket ..	1	1	..	..
	Steel, with cast steel bracket .. .. .	..	..	1	1
Link, connecting flap ..	Steel, with fixing screw, and pin with collar and split key	1	1	1	1

544

					6-inch.		9 2-inch	10-inch
					Mark II.	Mark IV.	Mark I.	Mark I.
Gear, sighting—								
Pillar, foresight..	..	Steel	..	..	1	1	..	..
„ tangent sight ..	..	„	..	..	1	1	..	..
„ supporting tele-	..	„	..	..	..	..	1	1
scope carrier ..	..	„	..	..	..	..	1	1
Pir, connecting rod, upper	..	P.B., with spring and nuts	..	..	..	..	1	1
Rods, connecting, sight	{	With P.B., pin spring and	..	..	1	1	..	..
frame ..		nuts ..	..	..	..	..	1	1
Slides, adjusting ..	{	Steel, tubular, with G.M.	..	..	1	1	..	..
„		couplings ..	..	..	..	..	1	1
„		G.M., with fixing bolts	..	..	1	1	..	..
„	{	and 4 adjusting screws..	..	..	..	..	1	1
„		Cast steel, with 4 adjust-	..	..	..	..	1	1
„	{	ing screws, each with lock	..	..	..	..	1	1
„		nut and fixing bolts ..	..	..	..	..	1	1
Socket, foresight ..	..	P.B.	..	..	..	..	1	1
„ tangent sight ..	..	P.B.	..	..	..	..	1	1
Stud, hinge, sight frame	..	Steel	..	..	1	1	1	1
Instructional prints R.C.D.	..	..	..	Nos.	1069		1086	1079

11964.—Carriages, garrison,
Q.F., 4'7-inch, C.P.
(Marks IV. and V.) .. L

Mineral jelly for lubricating ball bearings.

30th Nov. 1903.

71
1
311

With reference to § 11377 :—The circular groove in the ball bearing ring of carriages of the above-mentioned description (§ 10871) containing the anti-friction balls will be filled with mineral jelly to act as a lubricant and to prevent the ingress of water.

This service will be carried out locally, for which purpose 8½ oz. of mineral jelly per carriage will be supplied to officers concerned on demand.

Care must be taken before inserting the jelly to see that the groove and balls are perfectly clean and dry.

545

(WOOLWICH SECTIONS, NOS. 14 AND 16.)

11965.—Carriages, garrison, Q.F., recoil, 6-pr. Hotchkiss. (Marks I.* and II.*).. ..	L	For Mark II. gun; with pivot bearing ring, spring and spindle, also automatic sights and elevating gear.
---	---	--

Addition of automatic sights, elevating gear,
adjustable shoulder piece, bearing ring,
and relieving spring.

Shields, Q.F., recoil, 6-pr. Hotchkiss— Embrasure. (Mark I.*)	L
Cone. (Mark I.*) ..	L

Openings enlarged to clear automatic sights.

Cone, Q.F., recoil, 6-pr...	L
Saddle, Q.F., 6-pr. ..	L
Socket, recoil carriage, Q.F., 6-pr.	L

Fitted with footstep bearing.

Ordnance, Q.F., Hotch- kiss, 6-pr., Mark II.— Crank handle. (Mark II.).. ..	L	Steel, with set screw, and spring with fixing screw
--	---	---

Drawings as detailed below, embodying the undermentioned
modifications to existing Mark II. 6-pr. Hotchkiss guns (§ 6283)
and 6-pr. Hotchkiss carriages, shields, cones, sockets, and saddles
(§§ 6154, 9431) have been approved to govern local alteration.

Carriage —	R.C.D.	26th June 1900.
Automatic sights	71	
Elevating gear	1	
Bearing ring and relieving spring	9265	
Shoulder piece	21st Sept. 1901.	
	24th Jan. 1902.	
	1489	
	31st Oct. 1901.	
	57	
	3	
	379	

546

Shields—					R.C.D.
Cone.	(Mark I.*)	....	....	....	9414
Embrasure.	(Mark I.*)	....	....	....	9415
Cone	....	....	....	....	5984
Saddle	....	....	....	....	6043/1
					R.G.F.
Crank handle.	(Mark II.)	....	....	....	7841A

The automatic sights consist of the following principal parts:—

Sight bar.
Carrier.
Cam.
Cam bracket.

The sight bar which carries the fore and hind sights is pivoted to the carrier (attached to the right side of the cradle) and engages with the cam by means of a roller attached to under side of the bar. The hind sight is provided with a V-notch and with fittings to enable adjustments to be made for deflection. The fore sight is acorn pointed. Recesses are provided in the sight holders for the reception of electric incandescent lamps of the illuminating sight gear (§ 10939). The cam for controlling the sight is attached to the top of the cam bracket, and can be adjusted to suit varying heights of the tide by means of a hand lever and an eccentric which engages with the lower part of the cam. The cam bracket is fixed to the right cheek of the pivot.

The elevating gear, which is attached to a bracket on the left side of the pivot, is actuated by a handwheel, which transmits motion through wormwheel gearing to an elevating arc attached to the cradle.

The shoulder piece, which is concave in form, is capable of adjustment to suit the requirements of individual layers.

The pivot is fitted with a steel bearing ring under the shoulder to ensure stability whilst laying, and with a relieving spring with spindle to reduce the labour of traversing (the lower end of the spindle fits in a footstep bearing provided for its reception in the cone, socket, and saddle). The point of the "screw, clamping pivot," is reduced to suit the altered position of the recess in the pivot.

The "shield protecting gun layer" is carried on the transom spindle of the carriage instead of forming a part of the shoulder piece as hitherto.

The openings in the shields are enlarged to clear the sight line and sight bar of the automatic sights.

Carriages and shields when altered as described above will have a star (*) added to the numeral as shown.

547

Shields, Q.F., recoil, 6-pr.—

Cone. (Mark I.*)

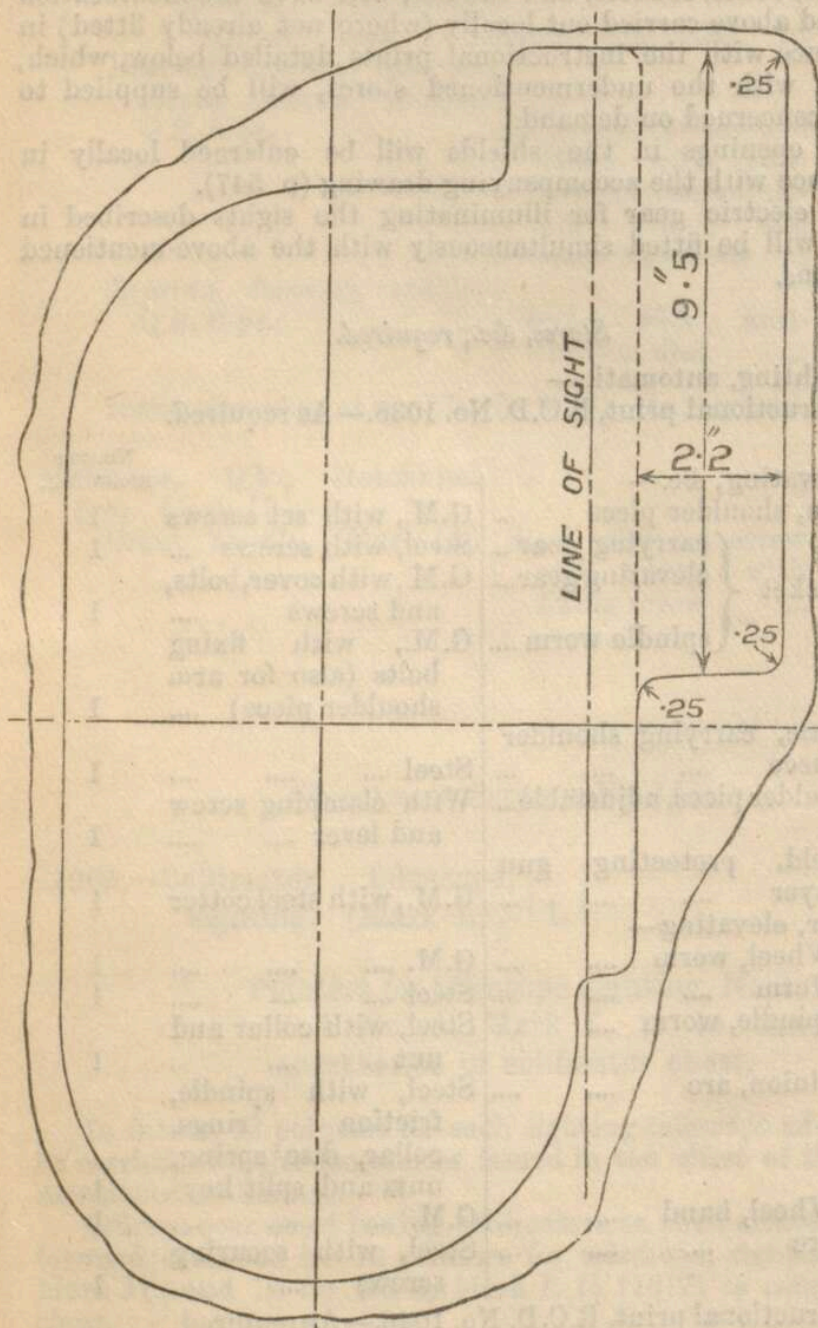
Embrasure. (Mark I.*)

L

L

Cutting of shields for auto-sights.

Scale $\frac{1}{4}$.



Consequent on the fitting of the automatic sights as described above, a crank handle of a special pattern will be required. This crank handle will be described as Mark II. ; it differs from the Mark I. described in § 6283 only in being cranked to suit the above-mentioned sight.

Existing Mark II. Hotchkiss guns, and Marks I. and II. carriages, cones, sockets, and saddles, will have the modification described above carried out locally (where not already fitted) in accordance with the instructional prints detailed below, which, together with the undermentioned stores, will be supplied to officers concerned on demand.

The openings in the shields will be enlarged locally in accordance with the accompanying drawing (p. 547).

The electric gear for illuminating the sights described in § 10939 will be fitted simultaneously with the above-mentioned alterations.

Stores, &c., required.

Gear, sighting, automatic—

Instructional print, R.C.D. No. 1038.—As required.

			No. per mounting.
Gear, elevating, &c.—			
Arm, shoulder piece	...	G.M., with set screws	1
Bracket	{ carrying gear	...	1
	{ elevating gear	...	1
	{ spindle worm	...	1
		G.M., with set screws	1
Pintle, carrying shoulder piece	...	Steel	1
Shoulder piece, adjustable	...	With clamping screw and lever	1
Shield, protecting gun layer	...	G.M., with steel cotter	1
Gear, elevating—			
Wheel, worm	...	G.M.	1
Worm	...	Steel	1
Spindle, worm	...	Steel, with collar and nut	1
Pinion, arc	...	Steel, with spindle, friction rings, collar, disc spring, nuts and split key	1
Wheel, hand	...	G.M.	1
Arc	...	Steel, with securing screws	1

Instructional print, R.C.D. No. 1046.—As required.

549

Bearing ring, relieving spring, and footstep bearings, &c. :—			No. per mounting.
Carriage, garrison, Q.F., recoil, 6-pr. Hotchkiss—			
Ring, bearing, pivot	Steel	1	
Spring, relieving pivot	Steel, spiral	1	
Spindle, relieving spring	Steel, with collar	1	
Bearing, footstep, cone or elastic stand socket, Q.F. 6-pr.	In two parts (steel and M.B.) with anti- friction disc, adjust- ing collar, and securing screws		1
Bearing, footstep, saddle, Q.F. 6-pr.	Steel, with anti- friction disc	1	

Instructional print, R.C.D. No. 911A.—As required.

Ordnance, Q.F., Hotchkiss, 6-pr., Mark II.—			
Crank, handle. (Mark II.)	Steel, with set screw and spring with fixing screw	No. per gun.	1

(WOOLWICH SECTION, No. 14.)

11966.—Collimator, telescope,
sighting. (Mark I.) .. L

Pointers for telescope sighting, No. 1, Mark II.,
and No. 3, Mark I., to be carried with
accessories in collimator chest.

In future 12 pointers for each sighting telescope affected will
be carried with the accessories issued in the chest of the above-
mentioned collimator.

Officers concerned having collimators on their charge will put
forward demands for 12 pointers for telescope, sighting, No. 1,
Mark II., and 12 for No. 3, Mark I. (§ 11617) to complete the
chest.

16th Nov. 1903.

57

Gibraltar

8545

(646)

B

550

(WOOLWICH SECTION, No. 15.)

11967.—Mounting, tripod, 303-inch Maxim gun. (Mark III.) .. ..	|	L	Pack transport; with leather holder and foot strap.
---	--	---	---

Addition of foot strap.

Nomenclature.

13th July 1903. <u>77</u> <u>6</u> 4108	Mountings of the above-mentioned description (§ 11050) will be provided with a leather foot strap. The strap, which is placed over the upper part of the rear leg of the tripod, is for supporting the feet of the firing number, thus adding to the weight borne by the tripod and increasing the steadiness of the mounting. Officers concerned will take the necessary steps to demand the foot straps required. Consequent on the introduction of the foot strap, the details appended to nomenclature of the tripod have been amended to read as shown above.
--	---

(WOOLWICH SECTION, No. 16.)

21st Aug. 1900. <u>57</u> <u>24</u> 2986	11968.—Boxes, spare parts and implements, Q.F., Nordenfelt— 6-pr.— Land— Empty. (Mark III.) Filled. (Mark III.)	|	L L	}	Deal, with rope handles.
14th Oct. 1901. <u>57</u> <u>Cork</u> 5178	Naval. (Mark II.) 3-pr.— Land— Empty. (Mark III.) Filled. (Mark III.)	|	N L L	}	Deal, with wire handles, and padlock with key. Deal, with rope handles.
18th July 1902. <u>57</u> <u>24</u> 3499		|	L L	}	Deal, with rope handles.
1st Aug. 1903. <u>57</u> <u>Gen. No.</u> 4134	Drawings (R.C.D. 9615A, 9614A, respectively) of the above-				

551

mentioned 6 and 3-pr. boxes have been sealed to govern future manufacture.

The boxes differ from the previous patterns (§§ 7629, 7895, 9824) in the internal fittings, which are not shaped to the exact dimensions of the respective stores carried, and in the screws and fittings being of iron or steel, instead of brass or gunmetal as hitherto.

The Mark II. box for naval service also differs from those described in §§ 7629, 9824 in material, and in being provided with galvanized wire handles (having the hook joint covered with leather), and also with a padlock and key.

Dimensions.

					Boxes, spare parts and implements, Q.F., Nordenfelt.	
					6-pr.	3-pr.
					inches.	inches.
Length, outside	..	..	..	..	26·875	23·5
Width	..	..	..	..	15·7	15·7
Depth	..	..	..	..	5	4·75
Tonnage	..	..	..	..	ton. ·0305	ton. ·0253

11969.—Clamp, tangent sight,
automatic, Q.F.,
12½-pr., and Norden-
felt guns. (Mark I.) . C Bronze.

Extended use.
Nomenclature.

With reference to § 6775 :—The use of the automatic clamp for Nordenfelt 6 and 3-pr. guns therein mentioned has been extended to Q.F. 12½-pr. guns (§ 11465), and the nomenclature has been amended as shown above.

1st May 1902.

73

4

4031

(646)

B 2

11970.—Ordnance:—

Q.F.—

6-inch B, and Q.F.C.

6-inch—

Needles C

4·7-inch B, and 4-inch, Mark III.—

Needles C

12-pr.—

Needles C

Q.F.C. 4-inch—

Needles N

Q.F. or Q.F.C.—

Bush, firing hole | C

Adjustments to ensure maximum protrusion of striker.

16th June 1903.

5th Aug. 1903.

17th Oct. 1903.

7th Dec. 1903.

73

3

4693

With reference to §§ 11217, 11570 :—On receipt of the needles with insulators, therein described, they will be placed in the guns to which they belong, and the protrusion of striker measured by means of the No. 1 gauge described in § 11740.

In the event of any of the strikers (6-inch to 4-inch) not protruding the maximum amount through the firing hole, the bush in the front face of the breech screw will first be examined to see that the coned recess is in accordance with the annexed drawing (p. 553). Any bushes found to be "small" in the recess will be adjusted locally and on board H.M. ships to the dimensions shown on the drawing. A gauge for measuring the coned recess will be supplied to officers concerned as follows :—

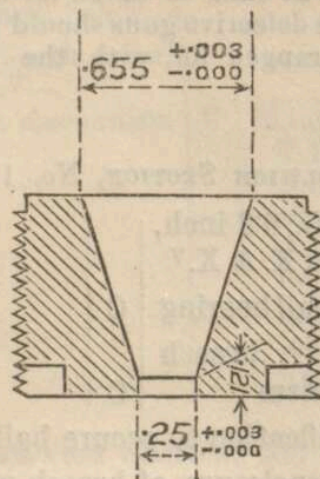
Naval service.—In accordance with arrangements which will be made by the Superintendent of Ordnance Stores.

Land service.—On demand, in the following proportions :—

Garrison armaments—				No.
Per district per nature of gun	....			1
Heavy battery, 4·7-inch, R.G.A.—				
Per brigade	....	....	....	1
Movable armament, 4·7-inch—				
Per district	....	....	....	1
Volunteers, 4·7-inch—				
Per corps	....	....	....	1

553

Strikers (6-inch to 12-pr.) in which the protrusion is found to be less than the maximum (after the firing hole bush, 6-inch to 4-inch, has been adjusted as described above), will have the coned portion of the insulator on the needle adjusted by means of a file until the correct amount of protrusion is obtained.



11971.—Ordnance, Q.F., 4·7-inch
B, and 4-inch, Mark
III.—

Striker, E. and P. .. C

Modification to shape of insulator for front
end of needle.

With reference to § 11217 :—In future the vulcanized fibre insulator therein described for strikers of the above-mentioned description will have the exterior formed with a single cone, instead of with a double cone as hitherto.

A certain number of strikers, and needles for strikers, having insulators formed with a double cone, have been issued to the service. These insulators will be altered in accordance with instructional print R.G.F./10830/85, which will be supplied to officers concerned on demand, as follows :—

Land service.—Locally by Army Ordnance Department.

Naval service.—Will be altered before issue from Woolwich.

5th May 1903.

5th Aug. 1903.

73

4

4264

7th Dec. 1903.

4587

11972.—Ordnance, R.B.L., 40-pr. 32-cwt. | L |

Certain guns to be withdrawn.

With reference to § 206 :—Certain of the above-mentioned guns were originally issued having the breech opening 1·125 inch longer than the normal length.

8th Dec. 1903.

73

3

4830

When fitted with indicator rings, as described for R.B.L., 40-pr. 35-cwt. guns (§ 526), the breech screws of these guns fail to jam the vent piece on to the seating, owing to the abnormal length of the breech opening.

Guns in which this defect is found to exist should not be fired, and steps should at once be taken for their replacement.

When replaced, the defective guns should be returned to store and their disposal arranged for with the Principal Ordnance Officer, Woolwich.

(WOOLWICH SECTION, No. 17.)

11973.—Ordnance, B.L., 9·2-inch, wire, Marks X. & X. ^v	
Bushes, ball bearing	C
Frames, breech mechanism ..	C

Modification to secure ball bearing bushes.

Nomenclature of breech mechanism frame.

26th Aug. 1903.

57
2
9101

With reference to §§ 11220, 11745 :—In future manufacture breech mechanism frames of the above-mentioned description will be fitted with clamping nuts in the upper and lower lugs for securing the ball bearing bushes (as described for B.L. 12-inch, wire, Mark IX., § 10855). Corresponding serrations will be made round portions of the ball bearing bushes so as to engage with the clamping nuts.

The instructions contained in § 10855 must be followed when adjusting the ball bearing bushes.

Existing breech mechanism frames of the above-mentioned description will be modified as indicated below, in accordance with the undermentioned instructional print, which provides two methods ("A" and "B") of carrying out the modification.

"Plan A" on the instructional print shows the method to be adopted where the necessary machinery is available, the clamping nuts being made locally. "Plan B" shows the method to be adopted where machinery is not available for carrying out the modification in accordance with "Plan A." When "Plan B" is followed the undermentioned stores will be supplied to officers concerned on demand :—

Land service.—Locally by Army Ordnance Department.

Naval service.—In accordance with arrangements made by the Superintendent of Ordnance Stores.

Instructional print.

R.G.F. 10768B/120 As required.

555

Stores (when "Plan B" is adopted).

Nuts, clamping	2	} Per breech mechanism frame.
Bushes, set screw	2	

Consequent on the modification described above, the details appended to the nomenclature of the breech mechanism frame will be amended as shown below :—

Ordnance, B L., 9·2-inch, wire,
Marks X. and X.^v—

Frame, breech mechanism

C	Manganese bronze, with 6 fixing (1 special for N.S.) and 1 lubricating screws; 2 set screws, and 2 clamping nuts for ball bearing bushes; and plate catch locking loading tray, with 4 fixing screws, for L.S.
---	--

(WOOLWICH SECTION, No. 20.)

11974.—Silk, sewing, No. 2 .. C | 840 to 920 grs. per reel
of 640 yds.

Future supplies to be on reels only.

Nomenclature.

In future the above-mentioned silk (§ 11188) will be supplied on reels only. 18th Aug. 1903.

The details appended to nomenclature have been amended accordingly as shown above.

57

24

4673

(WOOLWICH SECTION, No. 21.)

11975.—Cordite, T C |
Cordite, M.D.T. C |

Such cordite or cordite, M.D., as may be in future made in tubular form will be described as shown above, the addition of the letter "T" indicating "tubular."

The method of indicating the size will be as follows :—

1st Sept. 1903.

74

6

2255

The mean external and internal diameter in hundredths of an inch of the finished cordite will be shown as the numerator, and the length of the sticks as the denominator of the fraction denoting size, *e.g.*—

"Cordite, M.D.T., size $\frac{50-17}{26}$,"

represents tubular M.D. cordite—external diameter, 0·5 inch, and internal diameter, 0·17 inch; length, 26 inches.

(WOOLWICH SECTION, No. 22.)

11976.—Battery and key, test
and firing—

(Mark III.**)

.. L

Teak box; with 2 cells,
saddle, key, indicator,
safety plug, and 3
cords.

9th Nov. 1902.

27th Nov. 1903.

57

24

4801

9th Nov. 1903.

4802

(Mark IV.) ..

.. L

Nomenclature.

With reference to §§ 9053, 10374, 9808 :—The details appended to the nomenclature of the above-mentioned stores have been altered to read as shown above.

11977.—Fuze, electric, No. 14.

(Mark III.) ..

.. L

Low tension.

19th July 1901.

7896

024

A drawing (R.L. 11080 (1)) of the above-mentioned fuze has been approved to govern future manufacture for land service.

The Mark III. fuze differs from the previous pattern (§ 5242) principally in the following particulars :—

The wires are straight, and whipped together above the head with waxed thread, instead of being twisted. They enter at the top of the head instead of at the sides, and each wire consists of three strands twisted together, instead of a single wire.

The arrangement of the copper poles is generally similar to the "Fuze, electric, No. 16, Mark III.," illustrated in § 11829.

The bridge consists of iridio-platinum "Wire, electric, uncovered, Z 13."

The body (or head) is made of ebonite instead of beech-wood.

(WOOLWICH SECTION, No. 22A.)

11978.—Cartridges, B.L., 12-pr.

6 cwt., 12 $\frac{7}{16}$ oz. cordite,

size 5. (Mark I.*) ..

.. L

Shalloon, with gun-
cotton priming.

Re-priming of Mark I. cartridges with
guncotton.

8th Sept. 1903.

2nd Nov. 1903.

75

3

778

In future, when Mark I. B.L. 12-pr. 6-cwt. 12 $\frac{7}{16}$ -oz. cartridges (§ 8137) are passing through Ordnance Factories for repair, they will be converted by having the powder priming at each end replaced by 1 dram of guncotton.

When converted the cartridges will be known as "Mark I.," and will be so marked.

557

11979,—Cartridges, Q.F., 2'95-inch:—

Cordite—

Double shell—

Mark I. .. L

Mark II. .. L

Charge, 5 oz.,
size 5, Mark

I. .. L

Iron, with medium base
fuze.With guncotton priming;
in shalloon bag.

Shrapnel shell—

Mark I. .. L

Mark II. .. L

Charge, 5 oz.
4 drs., size 5,
Mark I. .. L

Forged steel.

With guncotton priming;
in shalloon bag.

Case shot, Mark

I. .. L

Charge, 5½ oz.,
size 5, Mark

I. .. L

With guncotton priming;
in shalloon bag.

Bag, shalloon,

Mark I. .. L

Bag, shalloon,

Mark I. .. L

For 5-oz. and 5-oz. 4-drs.
cordite charges.

Cylinder, paper.

Mark I. .. L

For 5-oz., 5-oz. 4-drs., and
5½-oz. cordite charges.

Case shot, Mark

II.. .. L

Shell, double,

Mark III. .. L

Iron, for medium base
fuze.

Shell. star, Mark

I. .. L

Steel.

22nd July 1902.

75

12

3069

22nd July 1902.

3070

8th July 1903.

3786

25th June 1903.

3779

Patterns of the above-mentioned charges, bags, and paper cylinder, and a drawing (R.L. 12469 (1)) of the Mark II. case shot, have been approved to govern future manufacture. Drawings have also been approved showing the methods of filling as follows:—

Double shell cordite cartridges, Marks I. and II.	R.L. 11525c (1)
Shrapnel shell cordite cartridges, Marks I. and II.	11525D (1)
Case shot cordite cartridge, Mark I.	12731

Charges.

The charges consist of circular bundles of cordite, cut to the following lengths:—

For—

	inches.
Double shell cartridges	1·3
Shrapnel shell cartridges	1·35
Case shot cartridge	1·3

Each charge is contained in a shalloon bag, and is primed with one dram of guncotton yarn stemmed in a pocket formed by a disc of shalloon sewn to the bottom of the bag.

The paper cylinder, to hold the charge in position in the cartridge case, consists of a perforated cylinder with two perforated discs attached to each end.

Cartridge, Q.F., 2·95-inch, cordite, double shell, Marks I. and II.

Filled cordite cartridges fitted with Mark II. double shell (§ 10898) will be described as "Mark I," and when fitted with the Mark III. double shell (mentioned below) will be "Mark II."

Cartridge, Q.F., 2·95-inch, cordite, shrapnel shell, Marks I. and II.

Filled cordite cartridges fitted with Mark I. shrapnel shell (§ 10898) will be described as "Mark I," and when fitted with Mark II. shrapnel shell (§ 11792) will be "Mark II."

Cartridge, Q.F., 2·95-inch, cordite, case shot, Mark I.

These cartridges will be fitted with the Mark II. case shot described below.

Case shot, Mark II.

The case is made of tin, in three pieces soldered together, with a segmental lining of steel in six pieces.

The base is of forged steel, closed at the bottom with two steel discs, between which a tin disc is placed and soldered to the base. It is fitted with a copper driving band, under which the end of the tin case is pressed.

The top is closed by a wood block, covered with a tin cap soldered to the body.

The case contains about 404 bullets, 41 per lb.

559

Dimensions, &c.

			inches.
Length (maximum)	....	...	10.45
Diameter over body (maximum)	....	....	2.941
Diameter over driving band (maximum)	....	....	3.017
			lb.
Average total weight	....	....	15

*Shell, double, Mark III.**Shell, star, Mark I.*

In future manufacture of double and star shell (§ 10898) the ribs in the groove for driving band will be "waved." Such double shell will be described as "Mark III." The numeral of the star shell will remain unaltered, as no issues to the Service have been made of star shell without "waved" ribs.

(WOOLWICH SECTION, No. 23.)

11980.—Box, ammunition, S.A.,
1,000 rounds, 303-inch,
in chargers—

No. 1, Mark I.	..	L	White wood, with tin lining.
No. 2, Mark I.	..	L	Mahogany, with tin lining.
Case, chargers, 303-inch cartridges, Mark I. ..	..	L	Cardboard; to hold 20 cartridges in four chargers.

1. New patterns.

7th July 1903.

Boxes, ammunition,
S.A.—

Home and special, Mark XIV.	..	L
G.S.	..	C

Wood; with tin lining.

29th Sept. 1903.

57

Gen. No.

4363

28th Oct. 1903.

4491

2. New distinguishing labels when packed with ammunition in chargers.

20th May 1903.

4088

1. Patterns of the above-mentioned Nos. 1 and 2 boxes, and a drawing (C.I.W. 700) of the case, have been approved to govern manufacture. These boxes will eventually supersede, for land service, the "Boxes, ammunition, small-arm, home and special, Mark XIV.," and the "G.S., Mark XI.," respectively.

15th June 1903.

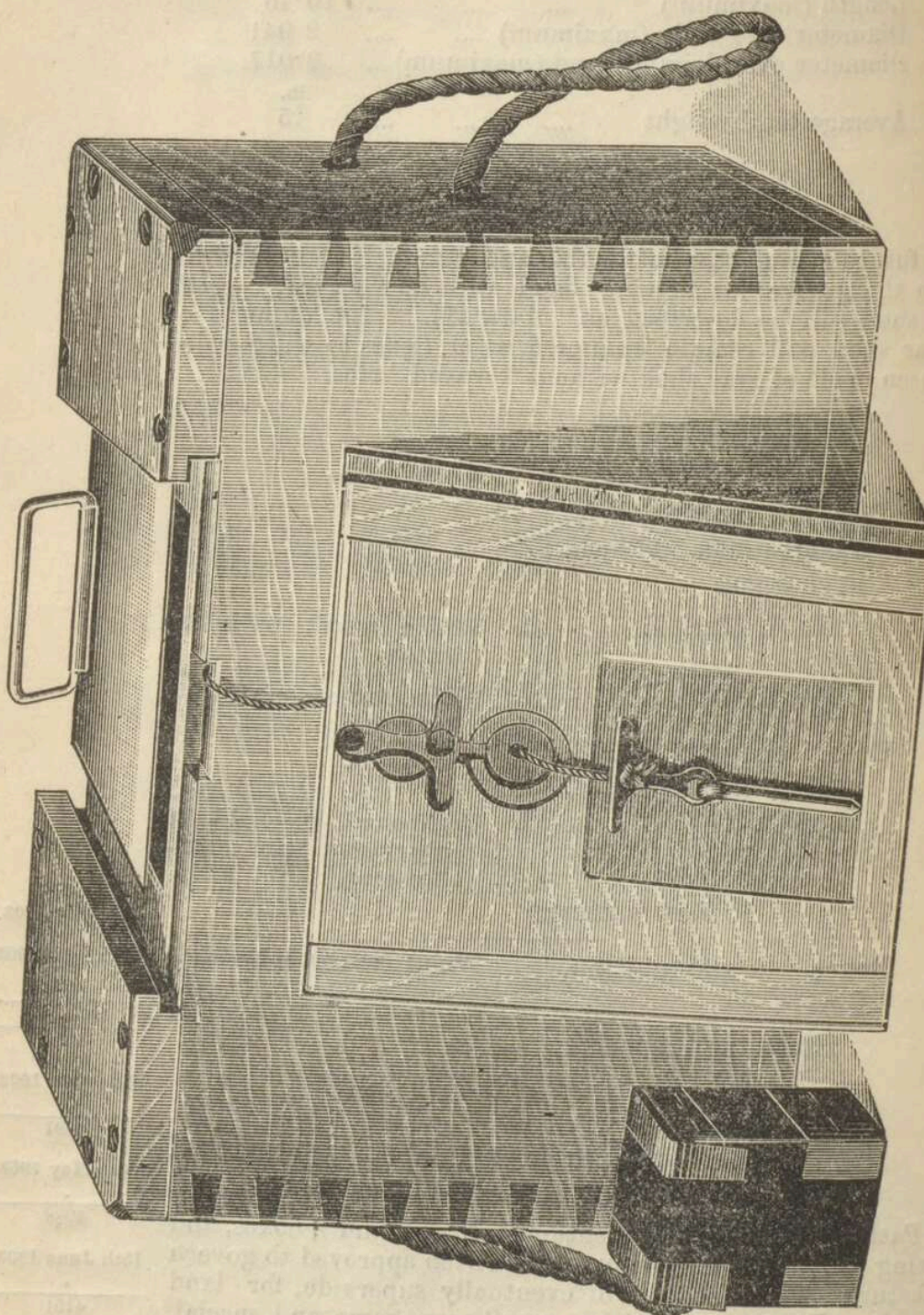
4151

15th June 1903.

4768

560

Box, ammunition, S.A., 1,000 rounds in chargers. No. 1. (Mark I.)



Case, chargers, .303 cartridges. (Mark I.)

561

Box, No. 1.

The box, which is for use in packing 1,000 rounds of .303-inch cartridges in chargers, is made to the form shown on the accompanying drawing.

The box is of white wood, with a tin lining, and is provided with a sliding lid, which is secured by means of a half round brass split pin, having a T-shaped handle attached to it.

The tin lining is provided with a closing plate fitted with a handle.

Each end of the box is provided with a rope handle for lifting purposes.

Box, No. 2.

This box is generally similar to the No. 1 box, but is made of mahogany or teak.

Case, chargers.

The case is made of cardboard, glued and stapled together, to the form shown on the accompanying drawing. It is for use in packing 20 rounds of .303-inch cartridges held in four chargers.

Dimensions, &c.

				Boxes, A.S.A., 1,000 rounds, Nos. 1 and 2.		Case, chargers.
				inches.		inches.
Length ..	..	..	..	16.5†		2.75
Width ..	..	..	..	8.312†		1.75
Depth ..	..	..	..	10.625†		3.375
				ton		
Tonnage ..	..	..	..	.02108		..
				No. 1.	No. 2.	
				—	—	
				lb. oz.	lb. oz.	
Weight {	empty	(about)		11 8	8 8	..
	filled	(about)		80 8	77 8‡	..

† Not to exceed for stowage.

‡ Boxes made of teak will weigh, filled, about 81 lb.

2. Boxes, A.S.A., home and special, Mark XIV. ; G.S., Mark XI.—These boxes when packed as above with .303-inch ammunition in chargers, for land service, will contain 840 rounds, and when so packed will have distinguishing labels affixed to them which will clearly indicate the contents.

562

(WOOLWICH SECTION, No. 25.)

11981.--Sideboard†	Mahogany, 8 feet; for mess rooms.
Table, officers	
Table, office, leather top. (Mark II.).. ..	With drawers, 5 feet by 3 feet.
Table, kitchen, small. (Mark I.)	Married soldiers, 54 inches by 30 inches, with two drawers.
Desk, office, single	

Removable knobs for drawers.

31st Aug. 1903.

With reference to §§ 584, 7349, 2159, 11921 :—

57

Gen. No.

4479

The patterns of the above-mentioned articles have been altered in the following manner to govern future manufacture :—

The knobs of the drawers, instead of being fixed, are made removable for convenience in packing.

The knob is secured by a mushroom-headed screw made of wood; the latter is inserted through the front of the drawer from the inside and screwed into the knob.

(WOOLWICH SECTION, No. 26.)

11982.—Box, tender. (Mark I.) ..	Tin, with dual control lock and 4 keys.
----------------------------------	---

21st Sept. 1903.

57

Gen. No.

4012

A pattern of the above-mentioned box has been sealed to govern future supplies.

The box is 18 inches square, and the lid is fitted with an opening 12 inches in length by 1½ inches in width. Each box will be marked "A.S.C." or "R.E.," as required.

The tender boxes now in use at stations (not previously a Vocabulary store) will be withdrawn when supplies of the new pattern are available to replace them.

(WOOLWICH SECTION, No. 27.)

11983.—Cloth, medicine	L	30 inches by 26 inches.
Cloth, distinctive	L	34 inches by 26 inches.
Duster	L	25 inches by 27 inches.

11th Aug. 1903.

12th Oct. 1903.

4th Dec. 1903.

57

Gen. No.

4204

It has been decided to introduce the above cloths and dusters

† The sideboard is not previously mentioned in *List of Changes*.

563

for hospital purposes, and to make them up from old material at Army Ordnance Depôts. The dimensions are approximate, and may, if necessary, be varied 1 or 2 inches in making up, to avoid waste of material.

Each cloth and duster is hemmed at each end ; the medicine and distinctive cloths are also provided with a tape loop for hanging up.

The following is an approximate estimate of the quantities of different material required to make up 540 of each :—

	Sheeting, old.		Tape, white, $\frac{3}{4}$ -inch.	Cotton, white, No. 24.	Remarks.
	Linen.	Cotton.			
	cwts.	cwts.	yards.	reels.	
Cloths, medicine..	..	3	102	22	} 7 inches of tape for each loop.
„ distinctive	9	..	102	27	
Dusters	9	..	..	16 $\frac{1}{2}$	

The cloths and dusters will be marked by A.O.D. in $\frac{1}{4}$ inch letters with the service for which intended, viz., “Medicine,” “Utensils,” or “Duster.”

(WOOLWICH SECTION, No. 28.)

11984.—Hydrometer, secondary
battery. (Mark II.) .. L | Glass; range 1.150 to
1.250.

A pattern of the above-mentioned hydrometer has been sealed to govern future manufacture. 3rd Nov. 1903.

It differs from the previous pattern (§ 11589) in having a more suitable range of graduations, and is $9\frac{3}{4}$ inches (instead of $10\frac{7}{8}$ inches) in length.

11985.—Lamps, signalling—
A. (Mark I.) L
B. (Mark I.) L

Nomenclature of oil.

With reference to §§ 10214, 10338, 11281, 11759 :—In future, the oil used with these lamps will be described as “Oil, mineral, burning, flashing point about 150 degrees Fah.”

1st Dec. 1903.

53

Malta

8523

564

11986.—Wagons, forge, R.E. |
(Mark IV.) L |

Tools not to be carried on outside of wagons.
Fittings abolished.

8th Oct. 1903.

57

Gen. No.

4615

With reference to § 11543 :—The decision to carry tools inside of wagons instead of securing them by fittings on the outside as hitherto has been extended to wagons of the above-mentioned description (§ 10968).

The fittings on existing R.E. Mark IV. forge wagons for carrying the undermentioned stores will be removed locally and returned to store together with the straps. The iron fittings and fixture leathers will be brought to produce locally.

Axes, felling.
Axes, pick.
Hooks, bill.
Hooks, reaping.
Shovels.
Spades.

565

(WOOLWICH SECTION, No. 29.)

11987.—Instruments, telegraph,
vibrating. (Mark II.)..L Consisting of trans-
mitter, Mark IV.;
telephone operators
"A," carbon box and
mouthpiece; in case.

Case. (Mark II.) ..

L Leather, 12 inches by
8½ inches by 4 inches,
with sling and internal
fittings.

Transmitters —

With brass cover for
coils, and two adjust-
ing pins.

Mark III. L

Mark IV. L

Brackets L

With clamping screw.

Screws, contact L

For pillar, platinum
tipped.

Springs, key L

Helical, German silver.

Stops, front—

Upper L

Lower L

} Platinum tipped.

Terminals,
double LNo. 2 B.A., with lock
nuts.

Nomenclature.

With reference to § 10909 :—In future, the articles detailed
on page 476 (as being necessary to form a complete instrument)
will, for field telegraphs, be issued in complete sets, instead of
as separate articles.

Consequent on this decision, the nomenclature of such
complete instruments has been arranged as shown above.

20th Oct. 1903.

7901

884

11988.—Rulers, parallel, rolling—

15-inch. (Mark II.) ..

L

9-inch. (Mark II.) ..

L

} Ebony.

Patterns of the above-mentioned rulers have been sealed to
govern future manufacture.

8th Dec. 1903.

57

24

4856

They differ from the previous patterns (§§ 5498, 9240) in
having larger diameter rollers and stronger metal fittings.

C

(646)

566

11989.—Switches, telephone—

Coast defence; for
metallic circuit
telephones; with
magneto generator,
jack plug, quadruple
plug and flexible cord,
standard with micro-
phone transmitter and
head telephone.

5-line. (Mark I.*) .. L

With 5 indicators.

10-line. (Mark I.*) .. L

With 10 indicators.

Plug, jack L

For 5-line or 10-line.

Nomenclature.

23rd Nov. 1903.

84

G

2995

The detail appended to the nomenclature of the above-mentioned stores (§§ 11456, 11763) has been altered to read as shown above.

11990.—Telescope, field artillery,

Mark III. L

With cap; magnification
35; field of view 55
minutes; aperture 2·3
inches; focal length
37 inches; length
closed 22 inches; two
draws; weight 5lb. 4oz.

Case, telescope, field
artillery, Mark I. .. L

Leather.

Case, stand, telescope,
field artillery, Mark I. LLeather; with pocket
for director.

Director, Mark I. .. L

Wood, sights and
straight edge; for use
with field artillery
telescope stand.

Stand, telescope, field
artillery, Mark I. .. LTripod; with legs in two
parts.

Nomenclature.

7th Aug. 1903.

54

Artillery

1323

A pattern of the above-mentioned Mark III. telescope has been sealed to govern future manufacture. It differs from the Mark II.* field artillery telescope (§ 11890) only in having a

567

leather cap fitted to protect the object glass (when in case) and the leather loop removed from the body.

Consequent on the introduction of the Mark III.⁵ telescope the nomenclature of the cases, director, and stand (§ 11890) has been amended as shown above.

11991.—Watch, stop, $\frac{1}{5}$ second.

(Mark II.)

C

Nickel; with stop and go-on movement; and leather thong.

Use extended to naval service.

With reference to § 11803 :—The use of the above-mentioned watch having been extended to naval service, the distinguishing letter has been altered to "C."

8th Sept. 1903.

57

Gen. No.

3570

H. W. Brackenbury
D. G. O.

WAR OFFICE,
1st January, 1904.

ERRATA.

1st Dec. 1903. § 9670. Page 310, Vol. XX.—

75

Guncotton, dry—

7

Primer, F.

8146

Distinguishing letter—

For "L," read "C."

§ 11465. Page 122, Vol. XXII.—

Fuze and igniter—

For "Drawing R.L. 11380," read "Drawing V.S. and M. 8089c."

§ 11828. Page 427, Vol. XXII.—

Fuze, electric, No. 14—

Third and sixth lines of text—

For "Mark II, fuzes," read "fuzes of later mark."